

JVC

CD RECEIVER

KD-R400

ENGLISH

RECEPTOR CON CD

KD-R400

ESPAÑOL

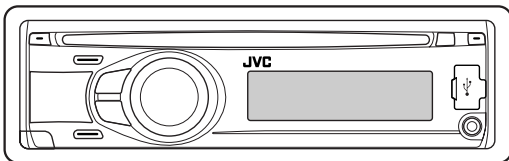
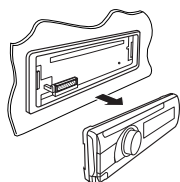
RÉCEPTEUR CD

KD-R400

FRANÇAIS



MP3 WMA



For canceling the display demonstration, see page 7.

Para cancelar la demostración en pantalla, consulte la página 7.

Pour annuler la démonstration des affichages, référez-vous à la page 7.

For installation and connections, refer to the separate manual.

Para la instalación y las conexiones, refiérase al manual separado.

Pour l'installation et les raccordements, se référer au manuel séparé.

For customer Use:

Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

INSTRUCTIONS

MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

GET0576-001A

[J]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

INFORMATION (For U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution:

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	WARNING SYNLIG OCH/ELLER ÖSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学機器で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FOM 21 CFR (ENG)
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[European Union only]

For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

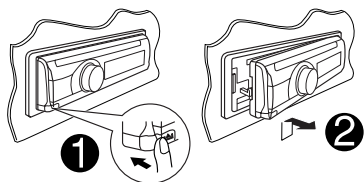
Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

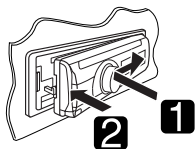
Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

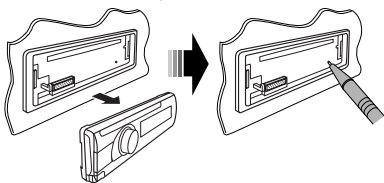
■ Detaching the control panel



■ Attaching the control panel

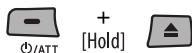


■ How to reset your unit



- Your preset adjustments will also be erased.

■ How to forcibly eject a disc



- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, see page 9.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

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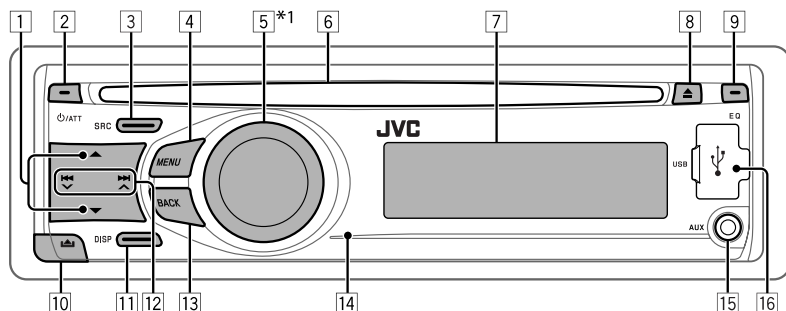
This mark is used to indicate...



Turn the control dial to make a selection, then press to confirm the selection.

Basic operations

Using the control panel



- 1 • **FM/AM**: Select preset station.
- **CD/USB**: Select folder.
- 2 • Turn on the power.
- Attenuate the sound (if the power is on).
- Turn off the power [Hold].
- 3 Select the source.
FM → AM*2 → **CD***3 → **USB** → **AUX IN***2 →
(back to the beginning)
- 4 • Enter list operations.
- Enter Menu setting [Hold].
- 5 • Control the volume*4 or select items [Turn].
- Confirm the selection [Press].
- **FM**: Enter SSM preset mode [Hold].
- **CD/USB**: Enter playback mode [Hold].
- Pause/resume playback*4 [Press].
- 6 Loading slot
- 7 Display window
- 8 Eject disc.
- 9 Select the sound mode.
- 10 Detach the panel.
- 11 Change the display information.
- 12 • **FM/AM**: Search for station.
- **CD/USB**: Select track.
- 13 Return to the previous menu.
- 14 Remote sensor
- 15 AUX (auxiliary) input jack
- 16 USB (Universal Serial Bus) input jack

*1 Also known as "Control dial" in this manual.

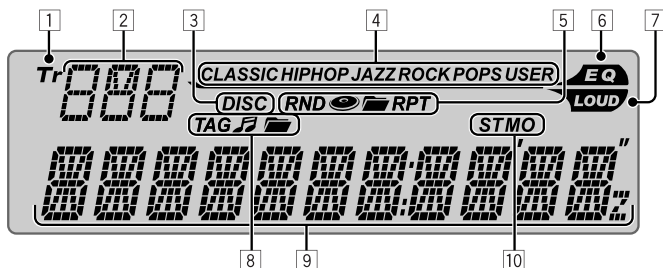
*2 You cannot select these sources if they were disabled in the Menu (see "SRC SELECT" in "Menu operations" on page 16).

*3 You cannot select "CD" as the playback source if no disc is in the unit.

*4 You can still adjust the volume during pause when the selected source is CD/USB.
Before resume playback, check to be sure that you have not raise the volume level too much.

You can change the display and button illumination (see "COLOR" on page 15).

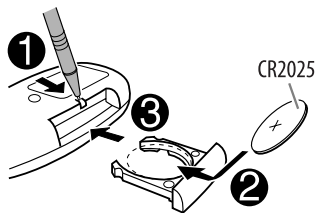
Display window



- | | |
|--|---|
| 1 Tr (track) indicator | 6 EQ (equalizer) indicator |
| 2 Source display / Track number / Folder number / Time countdown indicator | 7 LOUD (loudness) indicator |
| 3 DISC indicator | 8 Disc information indicators—TAG (Tag information), (track/file), (folder) |
| 4 Sound mode indicators—CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER | 9 Main display |
| 5 Playback mode / item indicators—RND (random), (disc), (folder), RPT (repeat) | 10 Tuner reception indicators—ST (stereo), MO (monaural) |

Using the remote controller (RM-RK50)

Installing the lithium coin battery (CR2025)



For USA-California Only:

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material—special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate

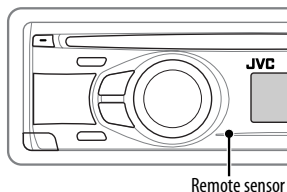
Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

If the effectiveness of the remote controller decreases, replace the battery.

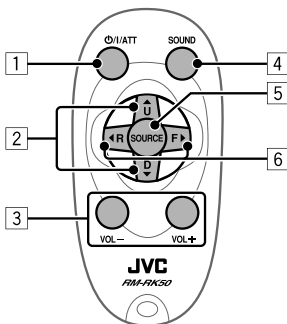
Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).



This unit is equipped with the steering wheel remote control function.

- See the Installation/Connection Manual (separate volume) for connection.



- 1 • Turns the power on if pressed briefly or attenuates the sound when the power is on.
- 2 • Turns the power off if pressed and held.
- 3 • Changes the preset stations.
- 4 • Changes the folder of the MP3/WMA.
- 5 • Adjusts the volume level.
- 6 • Selects the sound mode.
- 7 • Selects the source.
- 8 • Searches for stations if pressed briefly.
- 9 • Fast-forwards or reverses the track if pressed and held.
- 10 • Changes the tracks if pressed briefly.




Warning (to prevent accidents and damage):

- Do not install any battery other than CR2025 or its equivalent.
- Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time.
- Store the battery in a place where children cannot reach.
- Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
- Do not leave the battery with other metallic materials.
- Do not poke the battery with tweezers or similar tools.
- Wrap the battery with tape and insulate when throwing away or saving it.

Preparation

■ Canceling the display demonstration and setting the clock

- See also page 14.

1	 ⏻/ATT	Turn on the power.
2	 [Hold] Press and hold until the main menu is called up.  [Turn] → [Press] • Repeat this procedure.	Cancel the display demonstrations Select "DEMO," then "DEMO OFF." Set the clock Select "CLOCK" → "CLOCK SET." Adjust the hour, then press control dial once to proceed to adjust the minute. • To return to the previous menu, press BACK.

Changing the display information

DISP 

When the power is turned off: The current clock time is displayed if "CLOCK DISP" is set to "CLOCK OFF," (see page 14).

When the power is turned on: The display information of the current source changes as follows:



FM/AM	Frequency → Clock → Station name* ¹ → (back to the beginning)
CD	Audio CD/CD Text: Disc title/performer* ² → Track title* ² → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)
CD/USB	MP3/WMA: Album name/performer (folder name)* ³ → Track title (file name)* ³ → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)

*¹ If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 13.

*² If the current disc is an audio CD, "NO NAME" appears.

*³ If an MP3/WMA file does not have Tag information or "TAG DISPLAY" is set to "TAG OFF" (see page 14), folder name and file name appear.

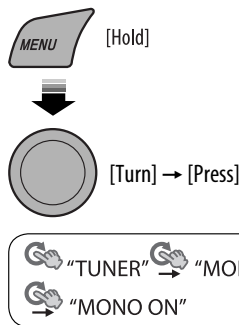
Listening to the radio

1	SRC 	Select "FM" or "AM."
2		Search for a station to listen—Auto Search. When a station is tuned in, searching stops. To stop searching, press the same button again. <ul style="list-style-type: none"> You can also search for a station manually—Manual Search. Hold either one of the buttons until "M" flashes on the display, then press it repeatedly. When receiving an FM stereo broadcast with sufficient signal strength, the ST indicator lights up on the display.

Improving the FM reception

When an FM stereo broadcast is hard to receive, activate monaural mode for better reception.

- See also page 15.



Reception improves, but stereo effect will be lost.

- The MO indicator lights up on the display.

To restore the stereo effect, repeat the same procedure to select "MONO OFF." The MO indicator goes off.

Storing stations in memory

Automatic presetting (FM)—SSM (Strong-station Sequential Memory)

You can preset up to 18 stations for FM.

1 While listening to a station...



2 Select the preset number range you want to store.








SSM 01–06 ↔ SSM 07–12 ↔ SSM 13–18

3



Local FM stations with the strongest signals are searched and stored automatically.

- To stop searching,** press     .

To preset other 6 stations, repeat from step 1 again.

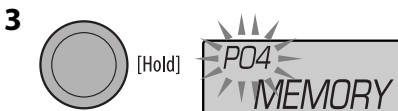
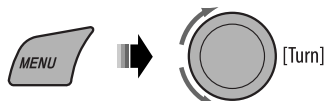
Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

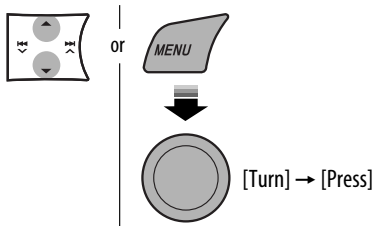
Ex.: Storing FM station of 92.50 MHz into preset number "04."



2 Select preset number "04."



Selecting preset station



Disc operations

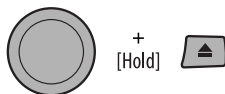
1		Turn on the power.
2		Insert a disc. All tracks will be played repeatedly until you change the source or eject the disc.

Stop playing and ejecting the disc



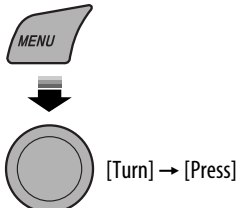
- "NO DISC" appears. Press SRC to listen to another playback source.

Prohibiting disc ejection



To cancel the prohibition, repeat the same procedure.




Selecting a track/folder



- For MP3/WMA discs, select the desired folder, then the desired track by repeating the control dial procedures.
- To return to the previous menu, press BACK.

Continued on the next page

Pressing (or holding) the following buttons allows you to...

	[Press] Pause/resume playback.
	MP3/WMA: Select folder
	[Press] Select track [Hold] Reverse/fast-forward track

■ Selecting the playback modes

You can use only one of the following playback modes at a time.

1



[Hold]

2



[Turn] → [Press]

REPEAT ↔ RANDOM

3



[Turn] → [Press]

REPEAT

TRACK RPT : Repeats current track

FOLDER RPT : MP3/WMA: Repeats current folder

RANDOM

FOLDER RND : MP3/WMA: Randomly plays all tracks of current folder, then tracks of next folders

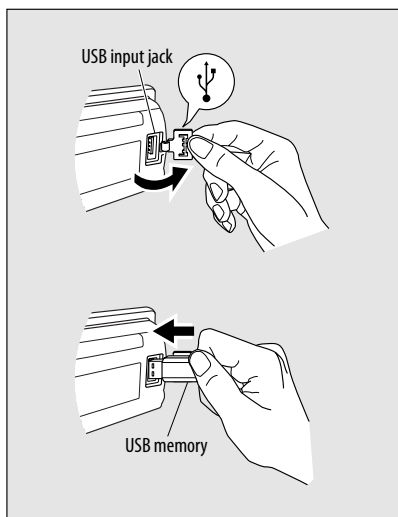
ALL RND : Randomly plays all tracks

- To cancel repeat play or random play, select "RPT OFF" or "RND OFF."
- To return to the previous menu, press BACK.

Listening to the USB device

This unit can play MP3/WMA tracks stored in a USB device.

All tracks will be played repeatedly until you change the source or detach the USB device.



If a USB device has been attached...

SRC 

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.

- Press SRC to listen to another playback source.

You can operate the USB device in the same way you operate the files on a disc. (See pages 9 and 10.)

Cautions:


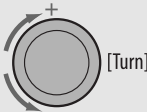
- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out and attach the USB device repeatedly while "READING" is shown on the display.
- Do not start the car engine if a USB device is connected.

- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see pages 19 and 20.

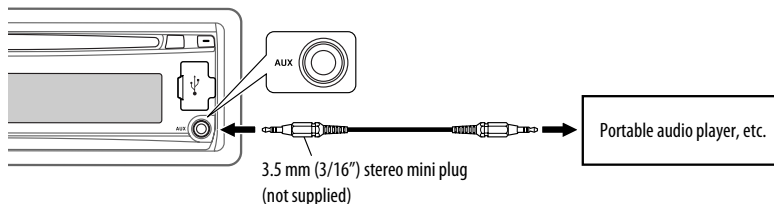
Listening to the other external components

You can connect an external component to AUX (auxiliary) input jack on the control panel.

Preparation: Make sure "AUX ON" is selected in the "SRC SELECT" → "AUX IN" setting, see page 16.

1	SRC 	Select "AUX IN."
2	—	Turn on the connected component and start playing the source.
3		Adjust the volume.
4	—	Adjust the sound as you want (see pages 12 and 13).

Connecting an external component to the AUX input jack



Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre.

- See also page 14.



or

Selecting from Menu.



- See below and page 13 for "USER" settings.

Preset value setting for each sound mode

Sound mode	Preset value									LOUD (loudness)
	BASS			MIDDLE			TREBLE			
	Freq.	Level	Q	Freq.	Level	Q	Freq.	Level	Q	
USER	60 Hz	00	Q1.25	1.0 kHz	00	Q1.0	10.0 kHz	00	—	OFF
ROCK	100 Hz	+03	Q1.0	1.0 kHz	00	Q1.25	10.0 kHz	+02	—	
CLASSIC	80 Hz	+01	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	
POPS	100 Hz	+02	Q1.25	1.0 kHz	+01	Q1.25	10.0 kHz	+02	—	
HIP HOP	60 Hz	+04	Q1.0	1.0 kHz	−02	Q1.0	10.0 kHz	+01	—	
JAZZ	80 Hz	+03	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	

Freq.: Frequency Q: Q-slope

Storing your own sound mode

You can store your own adjustments in memory.

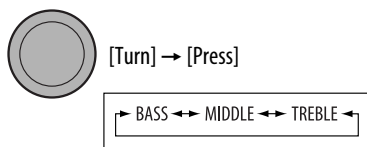
1 Select "USER" for "EQ."



2 While "USER" is shown on the display...



3 Select a tone.



4 Adjust the sound elements of the selected tone.



- 1 Adjust the frequency.
- 2 Adjust the level.
- 3 Adjust the Q-slope.

Sound elements	Range/selectable items		
	BASS	MIDDLE	TREBLE
Frequency	60 Hz	0.5 kHz	10.0 kHz
	80 Hz	1.0 kHz	12.5 kHz
	100 Hz	1.5 kHz	15.0 kHz
	200 Hz	2.5 kHz	17.5 kHz
Level	-06 to +06	-06 to +06	-06 to +06
Q	Q1.0	Q0.75	Fixed
	Q1.25	Q1.0	
	Q1.5	Q1.25	
	Q2.0		

5 Repeat steps 3 and 4 to adjust other sound characteristics.

The adjustment made will be stored automatically.

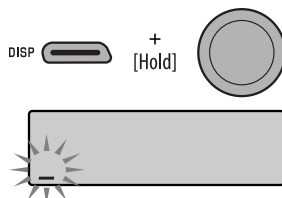
Title assignment

You can assign titles to 30 station frequencies (FM and AM) using 8 characters (maximum) for each title.

1 Select "FM" or "AM."

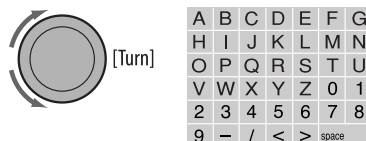


2 Show the title entry screen.



3 Assign a title.

- 1 Select a character.



- 2 Move to the next (or previous) character position.



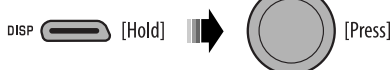
- 3 Repeat steps 1 and 2 until you finish entering the title.

4 Finish the procedure.



To erase the entire title

In step 2 above...



Menu operations

1 Call up the menu.



2 Select the desired item.



3 Repeat step 2 if necessary.

- To return to the previous menu, press BACK.
- To exit from the menu, press DISP or MENU.

Initial: **Underlined**

Category	Menu items	Selectable settings, [reference page]
DEMO	DEMO Display demonstration	<ul style="list-style-type: none"> • <u>DEMO ON</u> : Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. • DEMO OFF : Cancels.
CLOCK	CLOCK DISP *1 Clock display	<ul style="list-style-type: none"> • CLOCK ON : Clock time is shown on the display at all times when the power is turned off. • <u>CLOCK OFF</u> : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [7].
	CLOCK SET Clock setting	: Adjust the hour, then the minute, [7]. (Initial: 1:00)
EQ	EQ Equalizer	: Select a preset sound mode suitable to the music genre. <u>USER, ROCK, CLASSIC, POPS, HIP HOP, JAZZ</u>
DISPLAY	DIMMER Dimmer	<ul style="list-style-type: none"> • DIMMER ON : Dims the display and button illumination. • <u>DIMMER OFF</u> : Cancels.
	SCROLL *2 Scroll	<ul style="list-style-type: none"> • <u>SCROLL ONCE</u> : Scrolls the displayed information once. • SCROLL AUTO : Repeats scrolling (at 5-second intervals). • SCROLL OFF : Cancels. <p>Pressing DISP for more than one second can scroll the display regardless of the setting.</p>
	TAG DISPLAY Tag display	<ul style="list-style-type: none"> • <u>TAG ON</u> : Shows the Tag information while playing MP3/WMA tracks. • TAG OFF : Cancels.

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" to save the car's battery.

*2 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

Category	Menu items	Selectable settings, [reference page]
TUNER	AREA Tuner channel interval	<ul style="list-style-type: none"> • AREA US : When using in North/Central/South America. AM/FM intervals are set to 10 kHz/200 kHz. • AREA EU : When using in any other areas. AM/FM intervals are set to 9 kHz/50 kHz (100 kHz during auto search). • AREA SA : When using in South American countries where FM interval is 100 kHz. AM interval is set to 10 kHz.
	MONO * ₃ Monaural mode	<ul style="list-style-type: none"> • MONO ON : Activate monaural mode to improve FM reception, but stereo effect will be lost, [8]. • MONO OFF : Restore the stereo effect.
	IF BAND Intermediate frequency band	<ul style="list-style-type: none"> • AUTO : Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) • WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
COLOR	COLOR 01 – COLOR 29, USER	: Select one of the preset or user color for display and button (except EQ /⏻/ATT/▲) illumination. (For customize color settings, "USER," see page 17.)
MENU COLOR	MENU COLOR Menu color	<ul style="list-style-type: none"> • OFF : Cancels. • ON : Changes the display and button (except EQ/⏻/ATT/▲) illumination during menu, list search and playback mode operations.
AUDIO	FADER * ₄ ,* ₅ Fader	R06 – F06 : Adjust the front and rear speaker output balance. (Initial: 00)
	BALANCE * ₅ Balance	L06 – R06 : Adjust the left and right speaker output balance. (Initial: 00)
	LOUD Loudness	<ul style="list-style-type: none"> • LOUD OFF : Cancels. • LOUD ON : Boost low and high frequencies to produce a well-balanced sound at a low volume level.

*₃ Displayed only when the source is "FM."

*₄ If you are using a two-speaker system, set the fader level to "00."

*₅ This adjustment will not affect the subwoofer output.

Continued on the next page

Category	Menu items	Selectable settings, [reference page]
AUDIO	VOL ADJUST Volume adjust	VOL ADJ –05 : Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. VOL ADJ +05 (Initial: VOL ADJ 00) • Before making an adjustment, select the source you want to adjust. • “VOL ADJ FIX” appears on the display if “FM” is selected as the source.
	L/O MODE Line output mode	• SUB.W : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier). • REAR : Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	SUB.W FREQ *6 Subwoofer cutoff frequency	• LOW : Frequencies lower than 72 Hz are sent to the subwoofer. • MID : Frequencies lower than 111 Hz are sent to the subwoofer. • HIGH : Frequencies lower than 157 Hz are sent to the subwoofer.
	SUB.W LEVEL *6 Subwoofer level	SUB.W 00 : Adjust the subwoofer output level. — SUB.W 08 (Initial: SUB.W 04)
	BEEP Key touch tone	• BEEP OFF : Deactivates the key touch tone. • BEEP ON : Activates the key touch tone.
	AMP GAIN *7 Amplifier gain control	• LOW POWER : VOLUME 00 – VOLUME 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.) • HIGH POWER : VOLUME 00 – VOLUME 50
SRC SELECT	AM *8 AM station	• AM OFF : Disable “AM” in source selection. • AM ON : Enable “AM” in source selection, [4].
	AUX IN *9 Auxiliary input	• AUX OFF : Disable “AUX IN” in source selection. • AUX ON : Enable “AUX IN” in source selection, [4].

*6 Displayed only when “L/O MODE” is set to “SUB.W.”

*7 The volume level automatically changes to “VOLUME 30” if you change to “LOW POWER” with the volume level set higher than “VOLUME 30.”

*8 Displayed only when any source other than “AM” is selected.

*9 Displayed only when any source other than “AUX IN” is selected.

Color settings

■ Creating your own color —USER Color

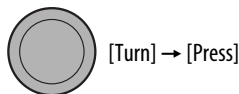
You can create your own colors—"DAY COLOR" or "NIGHT COLOR."

DAY COLOR: Used when "DIMMER" is set to "DIMMER OFF."

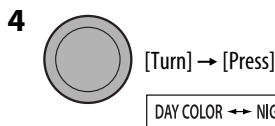
NIGHT COLOR: Used when "DIMMER" is set to "DIMMER ON."



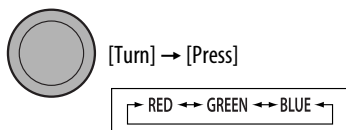
2 Select "COLOR" → "USER."



3 While "USER" is shown on the display...



5 Select a primary color.



6 Adjust the level (00 to 31) of the selected primary color.



If "00" is selected for all the primary colors, nothing appear on the display.

7 Repeat steps 5 and 6 to adjust other primary colors.

8 Exit from the setting.



- If no operation is done for about 30 seconds, the operation will be canceled.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops.
Next time you select "CD" as the playback source, playback will start from where it had been stopped previously.
- If no operation is done for about 30 seconds after pressing MENU button, the operation will be canceled.

Tuner operations

Storing stations in memory


- During SSM search...
 - All previously stored stations are erased and the stations are stored anew.
 - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3/WMA formats.
- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press  to eject the disc.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only "finalized" CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation has occurred on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - The files on the CD-R/CD-RW are written using the "Packet Write" method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).

- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
 - Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
- Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows extension.
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 64 characters
 - Joliet: up to 32 characters
 - Windows extension: up to 64 characters

- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).

Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
 - MP3 files encoded in MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have data such as AIFF, ATAC3, etc.
- The search function works but search speed is not constant.

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, “CANNOT PLAY” appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.

Continued on the next page

- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
 - Folder names : 32 characters
 - File names : 32 characters
 - MP3 Tag : 64 characters
 - WMA Tag : 32 characters
- This unit can recognize a total of 5 000 files, 255 folders (255 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognized a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files not based on Windows Media® Audio.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

Title assignment


- If you try to assign titles to more than 30 station frequencies, "NAME FULL" appears. Delete unwanted titles before assignment.

Menu operations

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "AUX IN" cannot be selected.	Check the "SRC SELECT" → "AUX IN" setting (see page 16).
	• Nothing appear on the display.	Check the USER Color settings (see page 17)
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
	• "AM" cannot be selected.	Check the "SRC SELECT" → "AM" setting (see page 16).
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 9). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• "PLEASE" and "EJECT" appear alternately on the display.	Press  , then insert a disc correctly.
	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

Continued on the next page

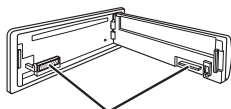
	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> A longer readout time is required ("READING" keeps flashing on the display). 	Do not use too many hierarchical levels and folders.
	<ul style="list-style-type: none"> Tracks do not play back in the order you have intended them to play. 	The playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> The elapsed playing time is not correct. 	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> The correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
USB device playback	<ul style="list-style-type: none"> Noise is generated. 	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> "READING" keeps flashing on the display. 	<ul style="list-style-type: none"> Readout time varies depending on the USB device. Do not use too many hierarchy or folders. Turn off the power then on again. Reattach the USB device again.
	<ul style="list-style-type: none"> "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> Tracks/folders are not played back in the order you have intended. 	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	<ul style="list-style-type: none"> "CANNOT PLAY" flashes on the display. "NO USB" appears on the display. The unit cannot detect the USB device. 	<ul style="list-style-type: none"> Attach a USB device that contains tracks encoded in an appropriate format. Reattach the USB device again.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
	<ul style="list-style-type: none"> While playing a track, sound is sometimes interrupted. 	<p>The MP3/WMA tracks have not been properly copied into the USB device.</p> <p>Copy MP3/WMA tracks again into the USB device, and try again.</p>

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.

If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD
—8 cm (3-3/16") disc



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)




Transparent or semi-transparent parts on its recording area



Specifications

AUDIO AMPLIFIER SECTION

Power Output:	20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N		
Signal-to-Noise Ratio:	80 dBA (reference: 1 W into 4 Ω)		
Load Impedance:			4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	Bass:	±12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0	
	Middle:	±12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25	
	Treble:	±12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed	
Frequency Response:			40 Hz to 20 000 Hz
Line-Out Level/Impedance:			2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance:			2.5 V/20 kΩ load (full scale)
Output Impedance:			1 kΩ
Other Terminal:			USB input jack, AUX (auxiliary) input jack, Steering wheel remote input

TUNER SECTION

Frequency Range:	FM:	with channel interval set to 100 kHz or 200 kHz	87.5 MHz to 107.9 MHz
		with channel interval set to 50 kHz	87.5 MHz to 108.0 MHz
	AM:	with channel interval set to 10 kHz	530 kHz to 1 710 kHz
		with channel interval set to 9 kHz	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity:	11.3 dBf (1.0 μV/75 Ω)	
	50 dB Quieting Sensitivity:	16.3 dBf (1.8 μV/75 Ω)	
	Alternate Channel Selectivity (400 kHz):	65 dB	
	Frequency Response:	40 Hz to 15 000 Hz	
	Stereo Separation:	35 dB	
AM Tuner	Sensitivity:	20 μV	
	Selectivity:	35 dB	

CD PLAYER SECTION

Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate: 320 kbps

USB SECTION

USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Compatible Device:	Mass storage class
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	DC 5 V --- 500 mA

GENERAL

Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:		Negative ground
Allowable Operating Temperature:		0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 160 mm (7-3/16" × 2-1/16" × 6-5/16")
	Panel Size:	188 mm × 58 mm × 6 mm (7-7/16" × 2-5/16" × 1/4")
Mass:		1.3 kg (2.9 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Still having trouble??

USA ONLY

Call 1-800-252-5722

<http://www.jvc.com>

We can help you!

JVC



EN, SP, FR

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1008DTSMDTJEIN

JVC

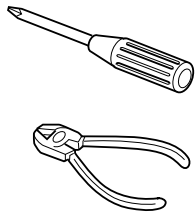
KD-R400

Installation/Connection Manual

Manual de instalación/conexión

Manuel d'installation/raccordement

GET0576-002A
[J]



1008DTSMDTJEIN
EN, SP, FR

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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 16 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

ESPAÑOL

Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

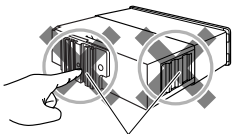
ADVERTENCIAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad.

- **Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.**

Notas:

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Se recomienda conectar altavoces que tengan una potencia máxima de más de 50 W (tanto en las partes delantera como trasera, con una impedancia de **4 Ω a 8 Ω**). Si la potencia máxima es de menos de 50 W, cambie "AMP GAIN" para evitar daños en los altavoces (consulte la página 16 del MANUAL DE INSTRUCCIONES).
- Para evitar cortocircuitos, cubra los terminales de los conductores NO UTILIZADOS con cinta aislante.
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.



Heat sink / Sumidero térmico / Dissipateur de chaleur

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de **courant continu de 12 V à masse NEGATIVE**. Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.

AVERTISSEMENTS

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

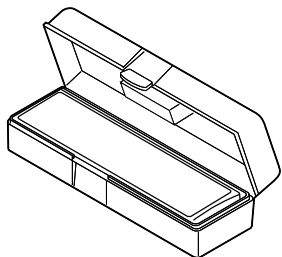
- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

Remarques:

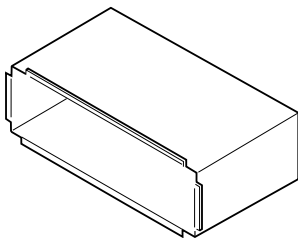
- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.
- Il est recommandé de connecter des enceintes avec une puissance maximum de plus de 50 W (à l'arrière et à l'avant et avec une impédance de **4 Ω à 8 Ω**). Si la puissance maximum est inférieure à 50 W, changez "AMP GAIN" pour éviter d'endommager vos enceintes (voir page 16 du MANUEL D'INSTRUCTIONS).
- Pour éviter les courts-circuits, recouvrez les extrémités des fils INUTILISÉS avec une bande isolante.
- Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.

Parts list for installation and connection

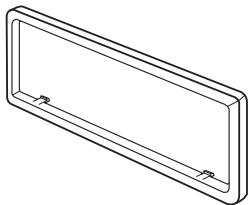
The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.



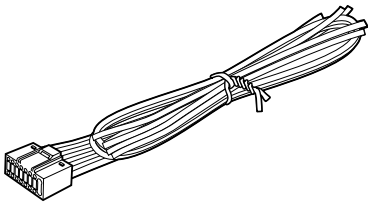
(A) / (B)
Hard case/Control panel
Estuche duro/Panel de control
Etui de transport/Panneau de commande



(C)
Sleeve
Cubierta
Manchon



(D)
Trim plate
Placa de guarnición
Plaque d'assemblage



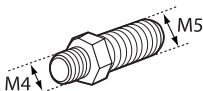
(E)
Power cord
Cordón de alimentación
Cordon d'alimentation



(F)
Washer (ø5)
Arandela (ø5)
Rondelle (ø5)



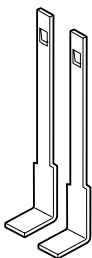
(G)
Lock nut (M5)
Tuerca de seguridad (M5)
Ecrou d'arrêt (M5)



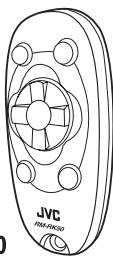
(H)
Mounting bolt—M4 × 5 mm (M4 × 1/4");
M5 × 12.5 mm (M5 × 1/2")
Perno de montaje—M4 × 5 mm (M4 × 1/4 pulgada);
M5 × 12,5 mm (M5 × 1/2 pulgada)
Boulon de montage—M4 × 5 mm (M4 × 1/4 pouces);
M5 × 12,5 mm (M5 × 1/2 pouces)



(I)
Rubber cushion
Cojín de goma
Amortisseur en caoutchouc



(J)
Handles
Manijas
Poignées



RM-RK50

(K)
Remote controller
Control remoto
Télécommande



CR2025

(L)
Battery
Pila
Pile

Lista de piezas para instalación y conexión

Con esta unidad se suministran las siguientes piezas. Si hay algún elemento faltante, consulte inmediatamente con su concesionario de JVC de equipos de audio para automóviles.

Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil. Si quelque chose manquait, consultez votre revendeur autoradio JVC immédiatement.

INSTALLATION
(IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

INSTALACION (MONTAJE EN EL
TABLERO DE INSTRUMENTOS)

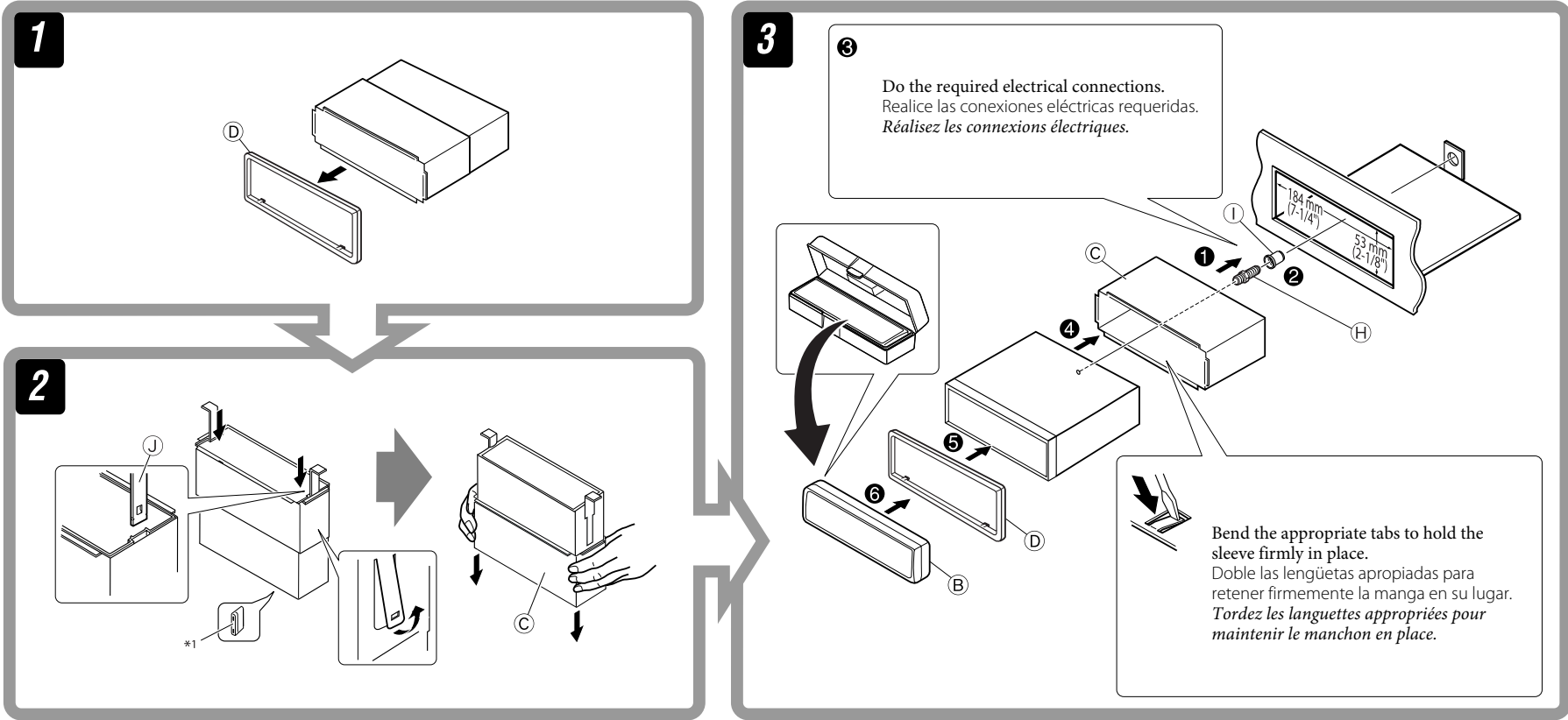
La siguiente ilustración muestra una instalación típica. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

- Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

INSTALLATION (MONTAGE
DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.



Removing the unit

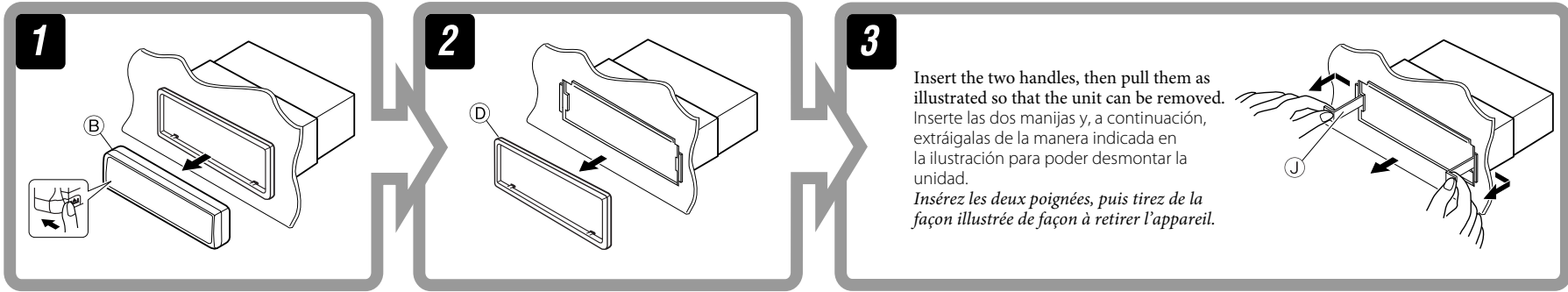
Before removing the unit, release the rear section.

Extracción de la unidad

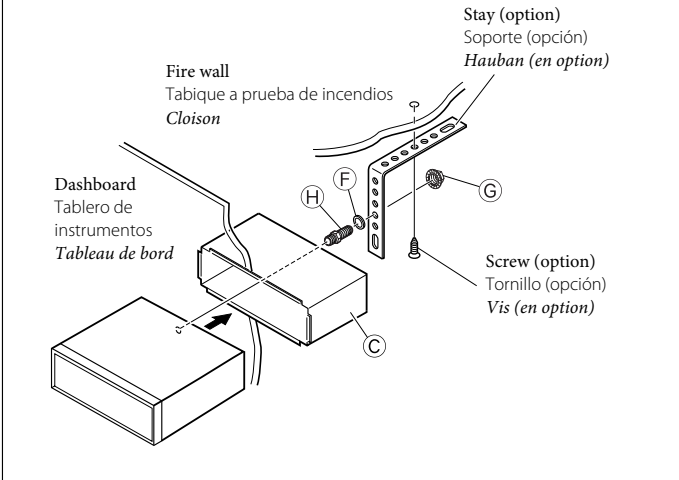
Antes de extraer la unidad, libere la sección trasera.

Retrait de l'appareil

Avant de retirer l'appareil, libérer la section arrière.



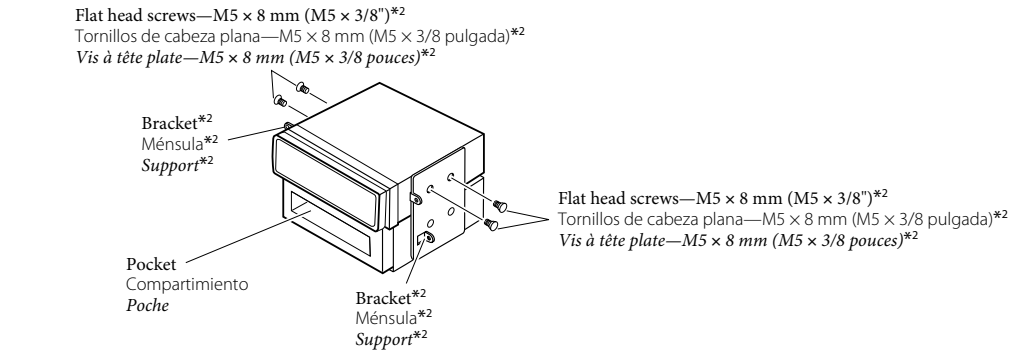
When using the optional stay / Cuando emplea un
soporte opcional / Lors de l'utilisation du hauban en
option



Install the unit at an angle of less than 30°.
Instale la unidad a un ángulo de menos de 30°.
Installez l'appareil avec un angle de moins de 30°.

When installing the unit without using the sleeve / Instalación de la unidad sin utilizar
la cubierta / Lors de l'installation de l'appareil scans utiliser de manchon

In a Toyota car for example, first remove the car radio and install the unit in its place.
En un automóvil Toyota, por ejemplo, en primer lugar desmonte el autorradio e instale la unidad en su lugar.
Dans une voiture Toyota, par exemple, retirez d'abord l'autoradio et installez l'appareil à sa place.



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm (3/8") -long screws. If longer screws are used, they could damage the unit.

Nota : Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 8 mm (3/8 pulgada) de longitud. Si se utilizan tornillos más largos, éstos pueden dañar la unidad.

Remarque : Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm (3/8 pouces). Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

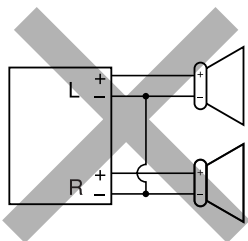
*1 Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.
*2 No suministrado con esta unidad.

*1 Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.
*2 Non fourni avec cet appareil.

ELECTRICAL CONNECTIONS

PRECAUTIONS on power supply and speaker connections:

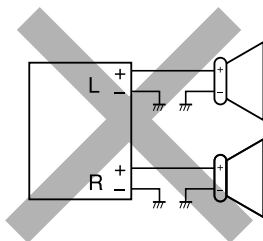
- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- **BEFORE** connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



CONEXIONES ELECTRICAS

PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

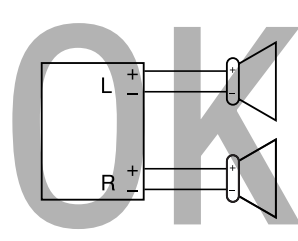
- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- **ANTES** de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.



RACCORDEMENTS ELECTRIQUES

PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS** les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.
- **AVANT** de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.



A Typical connections / Conexiones típicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

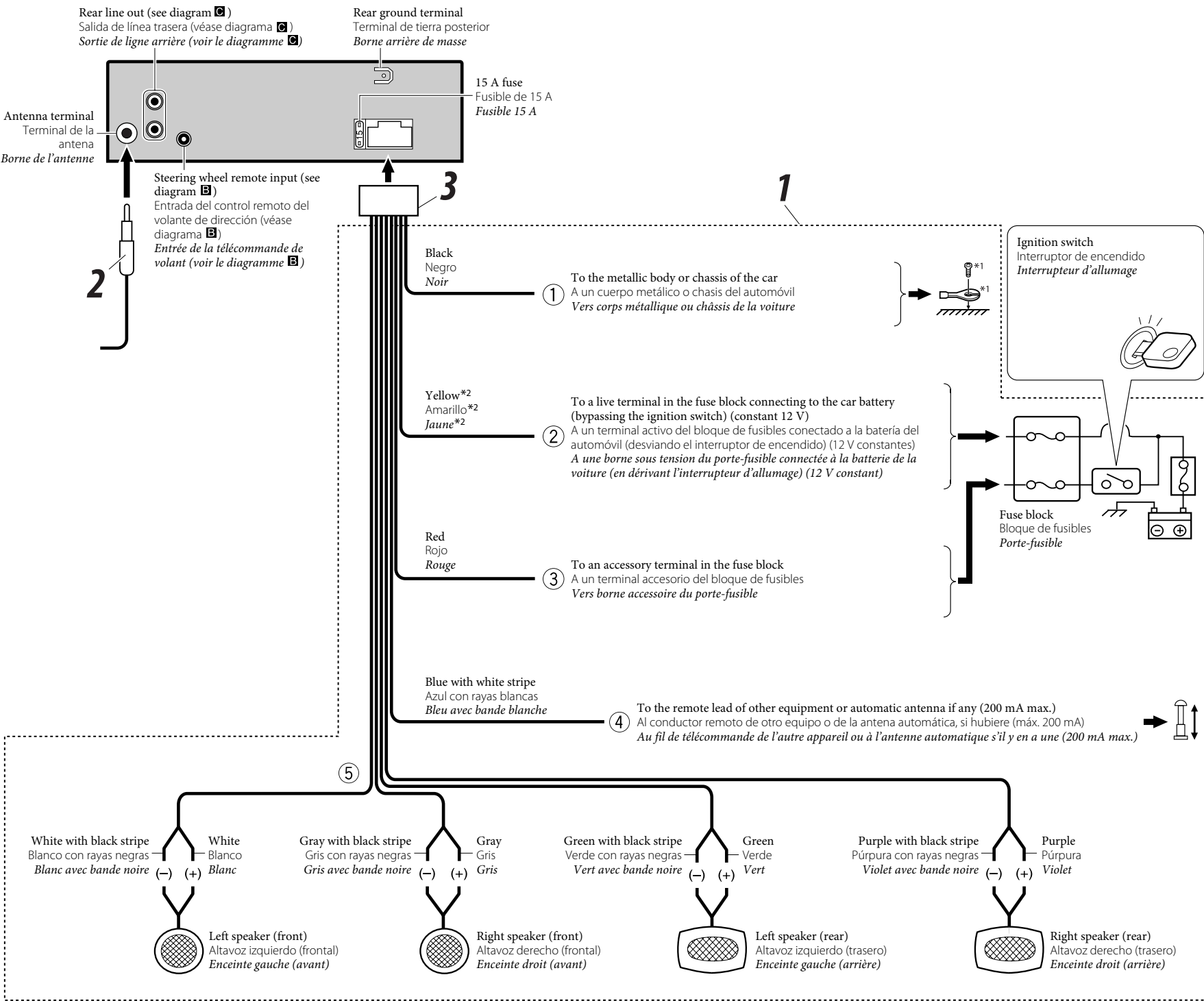
- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad. Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.

- 1 Conecte los conductores de color del cable de alimentación en el orden especificado en la ilustración de abajo.
- 2 Conecte el cable de antena.
- 3 Por último, conecte el cable de alimentación a la unidad.

Avant de commencer la connexion: Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil. Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

- 1 Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.
- 2 Connectez le cordon d'antenne.
- 3 Finalement, connectez le faisceau de fils à l'appareil.



*1 Not supplied for this unit.
*2 Before checking the operation of this unit prior to installation, this lead must be connected; otherwise, the power cannot be turned on.

*1 No suministrado con esta unidad.
*2 Antes de comprobar el funcionamiento de esta unidad previa a de la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación.

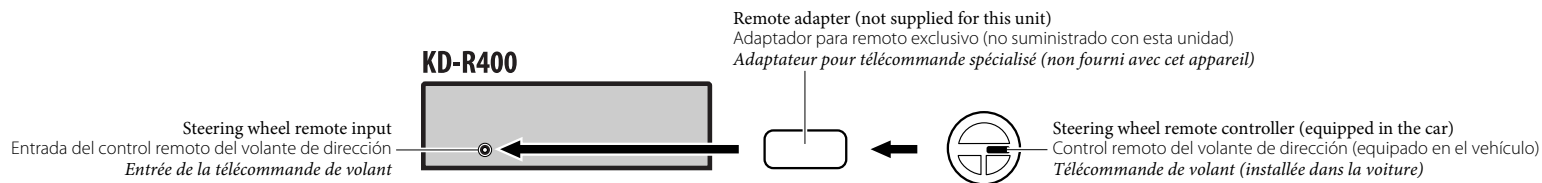
*1 Non fourni avec cet appareil.
*2 Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.

B Connecting to the steering wheel remote controller / Conexión al control remoto del volante de dirección / Connexion de la télécommande de volant

If your car is equipped with the steering wheel remote controller, you can operate this unit using the controller. For connection, an exclusive remote adapter (not supplied) which matches your car is required. For details, consult the same car audio dealer as where the unit is purchased.

Si su automóvil está equipado con control remoto en el volante de dirección, podrá controlar este receptor utilizando el control remoto. Para la conexión, se requiere un adaptador remoto exclusivo (no suministrado) que sea adecuado para su automóvil. Para los detalles, consulte con el concesionario car audio donde compró el receptor.

Si votre voiture est équipée d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant cette télécommande. Pour la connexion, vous avez besoin d'un adaptateur de télécommande spécialisé (non fourni) correspondant à votre voiture. Pour en savoir plus, consultez le revendeur autoradio où vous avez acheté votre autoradio.



C Connecting the external amplifier or subwoofer / Conexión de los amplificadores o subwoofer externos / Connexion d'amplificateurs extérieurs ou d'un caisson de grave

You can connect an amplifier to upgrade your car stereo system.

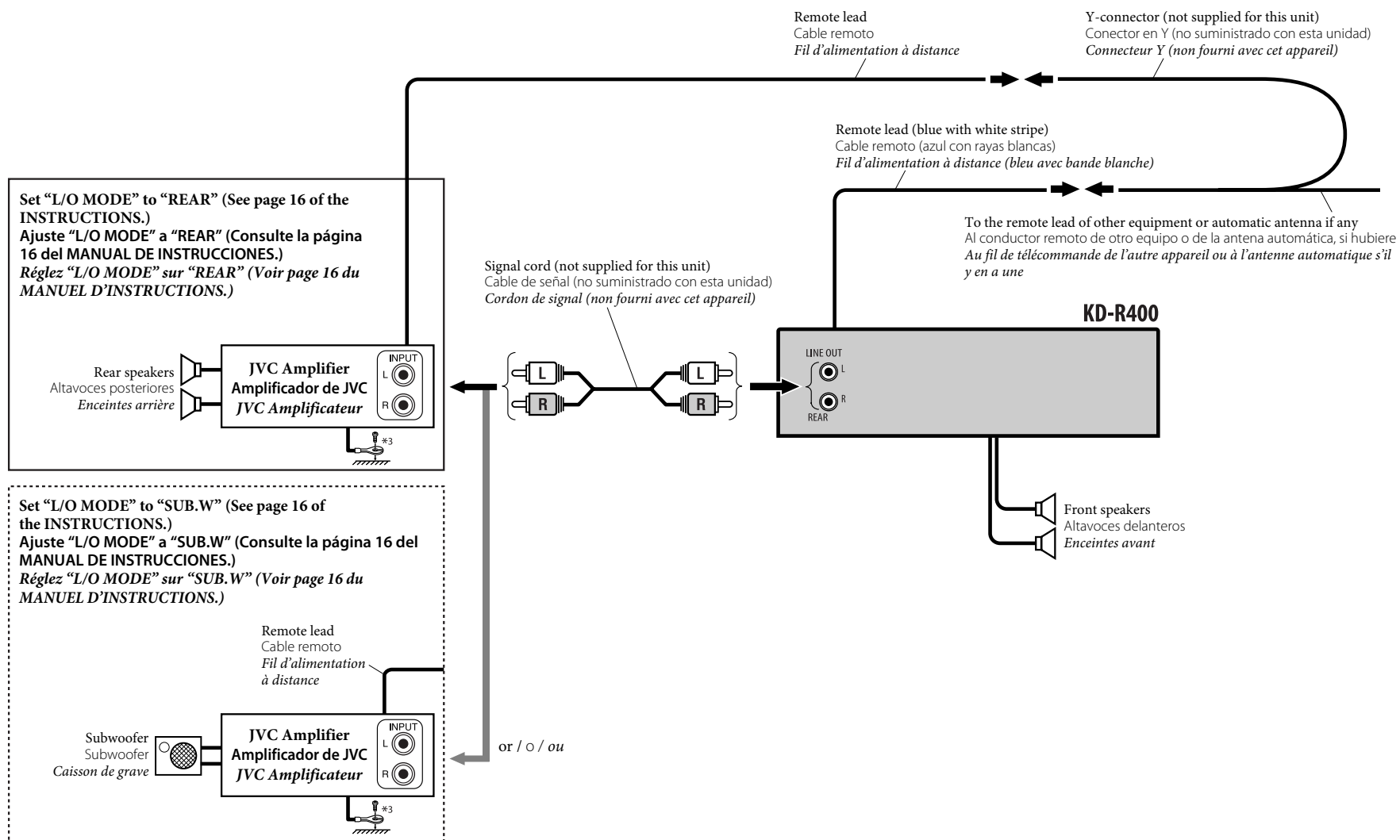
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Usted podrá conectar un amplificador para mejorar el sistema estéreo de su automóvil.

- Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
- Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar.**

Vous pouvez connecter un amplificateur pour améliorer votre système autoradio.

- Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.
- Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**



*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

*3 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura (si está cubierto con pintura, quítela antes de fijar el cable). De lo contrario, se podrían producir daños en la unidad.

*3 Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.

TROUBLESHOOTING

LOCALIZACION DE AVERIAS

EN CAS DE DIFFICULTES

• The fuse blows.

- * Are the red and black leads connected correctly?

• Power cannot be turned on.

- * Is the yellow lead connected?

• No sound from the speakers.

- * Is the speaker output lead short-circuited?

• Sound is distorted.

- * Is the speaker output lead grounded?
- * Are the “–” terminals of L and R speakers grounded in common?

• Noise interferes with sounds.

- * Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?

• This unit becomes hot.

- * Is the speaker output lead grounded?
- * Are the “–” terminals of L and R speakers grounded in common?

• This unit does not work at all.

- * Have you reset your unit?

• El fusible se quema.

- * ¿Están los conductores rojo y negro correctamente conectados?

• No es posible conectar la alimentación.

- * ¿Está el cable amarillo conectado?

• No sale sonido de los altavoces.

- * ¿Está el cable de salida del altavoz cortocircuitado?

• El sonido presenta distorsión.

- * ¿Está el cable de salida del altavoz conectado a masa?
- * ¿Están los terminales “–” de los altavoces L y R conectados a una masa común?

• Perturbación de ruido.

- * ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?

• Esta unidad se calienta.

- * ¿Está el cable de salida del altavoz conectado a masa?
- * ¿Están los terminales “–” de los altavoces L y R conectados a una masa común?

• Esta unidad no funciona en absoluto.

- * ¿Reinicializó la unidad?

• Le fusible saute.

- * Les fils rouge et noir sont-ils raccordés correctement?

• L'appareil ne peut pas être mise sous tension.

- * Le fil jaune est-elle raccordée?

• Pas de son des enceintes.

- * Le fil de sortie d'enceinte est-il court-circuité?

• Le son est déformé.

- * Le fil de sortie d'enceinte est-il à la masse?
- * Les bornes “–” des enceintes gauche et droit sont-elles mises ensemble à la masse?

• Interférence avec les sons.

- * La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?

• Cet appareil devient chaud.

- * Le fil de sortie d'enceinte est-il à la masse?
- * Les bornes “–” des enceintes gauche et droit sont-elles mises ensemble à la masse?

• Cet appareil ne fonctionne pas du tout.

- * Avez-vous réinitialisé votre appareil?

JVC

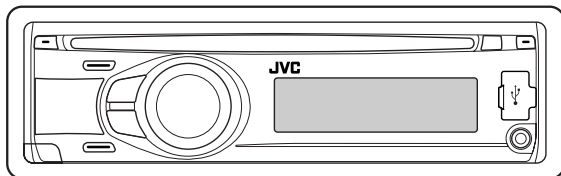
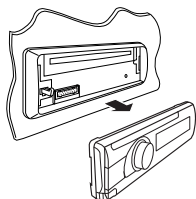
CD RECEIVER

CD-RECEIVER

РЕСІВЕР С ПРОІГРУВАТЕЛЕМ КОМПАКТ-ДИСКОВ

ΔΕΚΤΗΣ ΜΕ CD

KD-R501/KD-R402/KD-R401



Radio Data System



**MP3
WMA**

For canceling the display demonstration, see page 6.

Zum Abbrechen der Displaydemonstration siehe Seite 6.

Информацию об отмене демонстрации функций дисплея см. на стр. 6.

Για να ακυρώσετε την επίδειξη λειτουργίας στην οθόνη, βλ. σελίδα 6.

For installation and connections, refer to the separate manual.

Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.

Указания по установке и выполнению соединений приводятся в отдельной инструкции.

Για πληροφορίες σχετικά με την εγκατάσταση και τις συνδέσεις, ανατρέξτε στο αντίστοιχο ξεχωριστό εγχειρίδιο.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ
ΟΔΗΓΙΕΣ

GET0574-006A
[EY]

ENGLISH

DEUTSCH

РУССКИЙ

ΕΛΛΗΝΙΚΑ

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. CAUTION: Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	WARNING SYNLIK OCH/ELLER ÖSNLIG LASERSTRÅLNING, KLASSE 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 放射します。 光学装置で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)
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Products



Battery

Information for Users on Disposal of Old Equipment and Batteries [European Union only]

These symbols indicate that the product and the battery with this symbol should not be disposed as general household waste at its end-of-life.

If you wish to dispose of this product and the battery, please do so in accordance with applicable national legislation or other rules in your country and municipality.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health.

Notice:

The sign Pb below the symbol for batteries indicates that this battery contains lead.

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

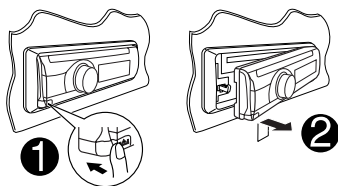
For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

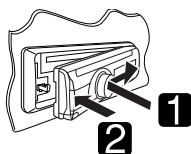
Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

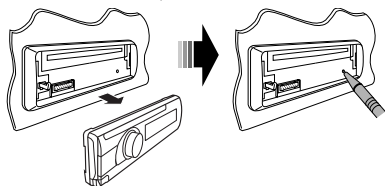
■ Detaching the control panel



■ Attaching the control panel

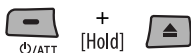


■ How to reset your unit



- Your preset adjustments will also be erased.

■ How to forcibly eject a disc



- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, see page 10.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

CONTENTS

Detaching the control panel.....	3
Attaching the control panel	3
How to reset your unit	3
How to forcibly eject a disc.....	3

OPERATIONS

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REFERENCES

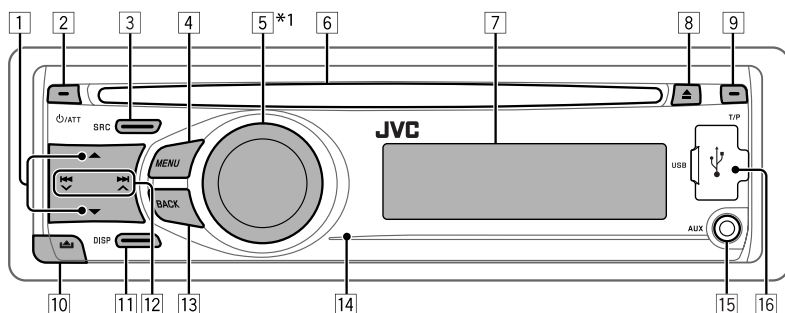
More about this unit	20
Troubleshooting.....	23
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This mark is used to indicate...



Turn the control dial to make a selection, then press to confirm the selection.

Basic operations



- 1 • **FM/AM**: Select preset station.
- **CD/USB**: Select folder.
- 2 • Turn on the power.
- Attenuate the sound (if the power is on).
- Turn off the power [Hold].
- 3 Select the source.
FM → CD*2 → USB → AUX IN*3 → AM*3 →
(back to the beginning)
- 4 • Enter list operations.
- Enter Menu setting [Hold].
- 5 • Control the volume*4 or select items [Turn].
- Confirm the selection [Press].
- **FM**: Enter SSM preset mode [Hold].
- **CD/USB**: Enter playback mode [Hold].
- Pause/resume playback*4 [Press].
- 6 Loading slot
- 7 Display window
- 8 Eject disc.
- 9 • Activate/deactivate TA Standby Reception.
- Enter PTY Searching mode [Hold].

- 10 Detach the panel.
- 11 Change the display information.
- 12 • **FM/AM**: Search for station.
- **CD/USB**: Select track.
- 13 Return to the previous menu.
- 14 Remote sensor
- You can control this unit with an optionally purchased remote controller. For details, see page 13.
- 15 AUX (auxiliary) input jack
- 16 USB (Universal Serial Bus) input jack

*1 Also known as "Control dial" in this manual.

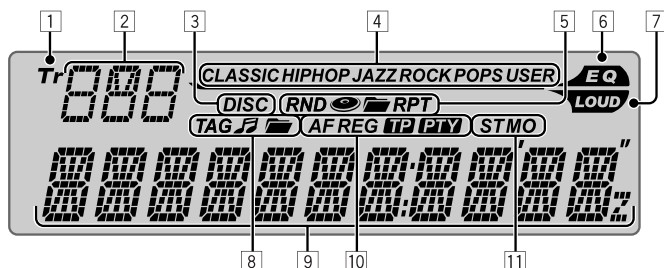
*2 You cannot select "CD" as the playback source if no disc is in the unit.

*3 You cannot select these sources if they were disabled in the Menu (see "SRC SELECT" in "Menu operations" on page 19).

*4 You can still adjust the volume during pause when the selected source is CD/USB.
Before resume playback, check to be sure that you have not raise the volume level too much.

KD-R501: You can change the display and button illumination (see "COLOR" on page 17).

Display window






- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Tr (track) indicator 2 Source display / Track number / Folder number / Time countdown indicator 3 DISC indicator 4 Sound mode indicators—CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER 5 Playback mode / item indicators— RND (random), (disc icon) (disc), (folder icon) (folder), RPT (repeat) 6 EQ (equalizer) indicator | <ul style="list-style-type: none"> 7 LOUD (loudness) indicator 8 Disc information indicators— TAG (Tag information), (track/file icon) (track/file), (folder icon) (folder) 9 Main display 10 Radio Data System indicators—AF, REG, TP, PTY 11 Tuner reception indicators—ST (stereo), MO (monaural) |
|---|---|

Preparation

■ Canceling the display demonstration and setting the clock

- See also page 16.

1	 ⏻/ATT	Turn on the power.
2	 [Hold] Press and hold until the main menu is called up.  [Turn] → [Press] • Repeat this procedure.	Cancel the display demonstrations Select "DEMO," then "DEMO OFF." Set the clock Select "CLOCK" → "CLOCK SET." Adjust the hour, then press control dial once to proceed to adjust the minute. Select "24H/12H," then "24 HOUR" or "12 HOUR." • To return to the previous menu, press BACK.

Changing the display information

DISP 

When the power is turned off: The current clock time is displayed if "CLOCK DISP" is set to "CLOCK OFF," (see page 16).



When the power is turned on: The display information of the current source changes as follows:

FM/AM	Station Frequency → Clock → (back to the beginning)
FM Radio Data System	Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)
CD	Audio CD/CD Text: Disc title/performer* ¹ → Track title* ¹ → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)
CD/USB	MP3/WMA: Album name/performer (folder name)* ² → Track title (file name)* ² → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)

*¹ If the current disc is an audio CD, "NO NAME" appears.

*² If an MP3/WMA file does not have Tag information or "TAG DISPLAY" is set to "TAG OFF" (see page 16), folder name and file name appear.

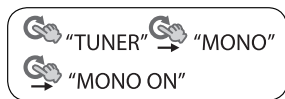
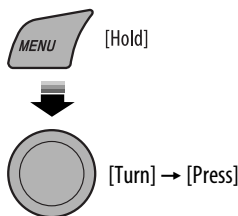
Listening to the radio

1		Select "FM" or "AM."
2		Search for a station to listen—Auto Search. When a station is tuned in, searching stops. To stop searching, press the same button again. <ul style="list-style-type: none"> You can also search for a station manually—Manual Search. Hold either one of the buttons until "M" flashes on the display, then press it repeatedly. When receiving an FM stereo broadcast with sufficient signal strength, the ST indicator lights up on the display.

Improving the FM reception

When an FM stereo broadcast is hard to receive, activate monaural mode for better reception.

- See also page 17.



Reception improves, but stereo effect will be lost.

- The MO indicator lights up on the display.

To restore the stereo effect, repeat the same procedure to select "MONO OFF." The MO indicator goes off.

Storing stations in memory

Automatic presetting (FM)—SSM (Strong-station Sequential Memory)

You can preset up to 18 stations for FM.

1 While listening to a station...



2 Select the preset number range you want to store.







SSM 01–06 ↔ SSM 07–12 ↔ SSM 13–18

3



Local FM stations with the strongest signals are searched and stored automatically.

- To stop searching**, press    .

To preset other 6 stations, repeat from step 1 again.

Continued on the next page

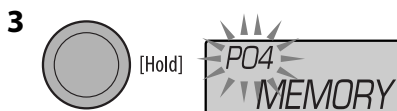
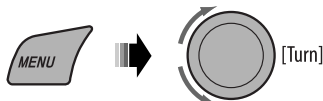
Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

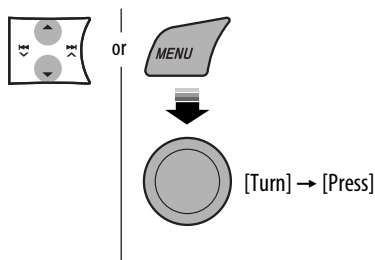
Ex.: Storing FM station of 92.50 MHz into preset number "04."



2 Select preset number "04."



Selecting preset station



The following features are available only for FM Radio Data System stations.

Searching for FM Radio Data System programme—PTY Search

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.



2 Select one of your favorite programme types or a PTY code.



3 Start searching for your favorite programme.



If a station is broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 17).

To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the Radio Data System signals required for TA Standby Reception.)

To activate the reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception



The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM.

To activate and select your favorite PTY code for PTY Standby Reception, see page 17.

The PTY indicator either lights up or flashes.

- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated.

To activate the reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "PTY OFF" for the PTY code (see page 17). The PTY indicator goes off.

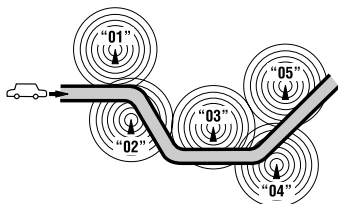
Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM Radio Data System station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see "AF-REG" on page 17.

Programme A broadcasting on different frequency areas (01 – 05)



Automatic station selection— Programme Search

Usually when you select a preset number, the station preset in that number is tuned in.


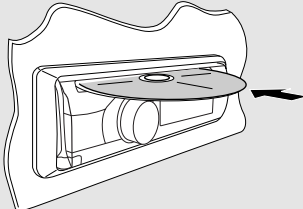
If the signals from the FM Radio Data System preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency possibly broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 17.

PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc operations

1	 ⏻/ATT	Turn on the power.
2		Insert a disc. All tracks will be played repeatedly until you change the source or eject the disc.

Stop playing and ejecting the disc



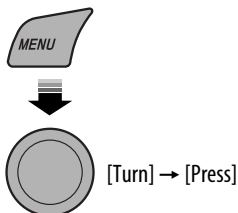
- “NO DISC” appears. Press SRC to listen to another playback source.

Prohibiting disc ejection






To cancel the prohibition, repeat the same procedure.

Selecting a track/folder





- For MP3/WMA discs, select the desired folder, then the desired track by repeating the control dial procedures.
- To return to the previous menu, press BACK.


Pressing (or holding) the following buttons allows you to...

	[Press] Pause/resume playback.
	MP3/WMA: Select folder
	[Press] Select track [Hold] Reverse/fast-forward track

Selecting the playback modes

You can use only one of the following playback modes at a time.

- 1  [Hold]
- 2  [Turn] → [Press]

REPEAT ↔ RANDOM
- 3  [Turn] → [Press]

REPEAT

TRACK RPT : Repeats current track

FOLDER RPT : MP3/WMA: Repeats current folder

RANDOM

FOLDER RND : MP3/WMA: Randomly plays all tracks of current folder, then tracks of next folders

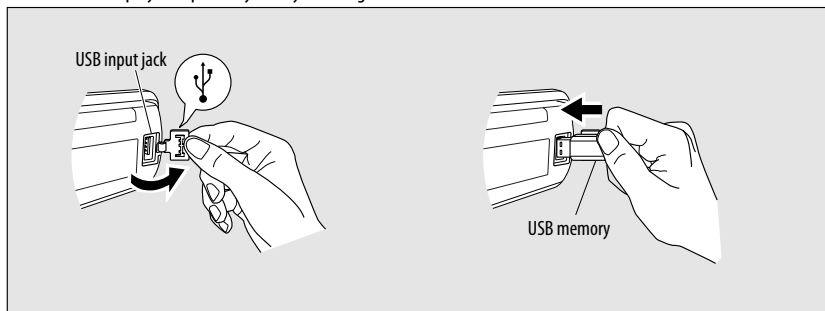
ALL RND : Randomly plays all tracks

- To cancel repeat play or random play, select "RPT OFF" or "RND OFF."
- To return to the previous menu, press BACK.

Listening to the USB device

This unit can play MP3/WMA tracks stored in a USB device.

All tracks will be played repeatedly until you change the source or detach the USB device.



If a USB device has been attached...

SRC 

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.

- Press SRC to listen to another playback source.

You can operate the USB device in the same way you operate the files on a disc. (See pages 10 and 11.)

Continued on the next page


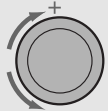
Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out and attach the USB device repeatedly while "READING" is shown on the display.
- Do not start the car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see page 22.

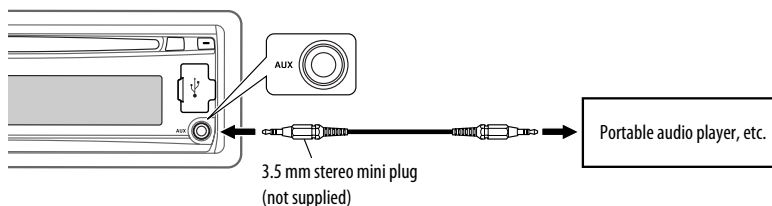
Listening to the other external components

You can connect an external component to AUX (auxiliary) input jack on the control panel.

Preparation: Make sure "AUX ON" is selected in the "SRC SELECT" → "AUX IN" setting, see page 19.

1	SRC 	Select "AUX IN."
2	—	Turn on the connected component and start playing the source.
3	 [Turn]	Adjust the volume.
4	—	Adjust the sound as you want (see pages 14 and 15).

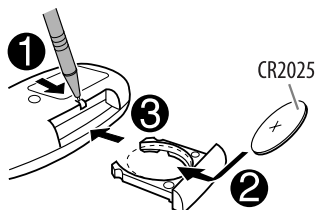
Connecting an external component to the AUX input jack



Using the remote controller — RM-RK50

This unit can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 with your unit.

Installing the lithium coin battery (CR2025)



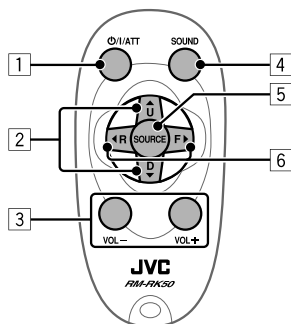
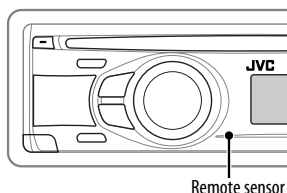
Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

If the effectiveness of the remote controller decreases, replace the battery.

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).



- 1 • Turns the power on if pressed briefly or attenuates the sound when the power is on.
- 2 • Turns the power off if pressed and held.
- 2 • Changes the preset stations.
- Changes the folder of the MP3/WMA.
- 3 Adjusts the volume level.
- 4 Selects the sound mode.
- 5 Selects the source.
- 6 • Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the tracks if pressed briefly.

Warning (to prevent accidents and damage):

- Do not install any battery other than CR2025 or its equivalent.
- Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time.
- Store the battery in a place where children cannot reach.
- Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
- Do not leave the battery with other metallic materials.
- Do not poke the battery with tweezers or similar tools.
- Wrap the battery with tape and insulate when throwing away or saving it.

Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre.

- See also page 16.



[Hold]



[Turn] → [Press]



"EQ"



"USER/ROCK/CLASSIC/POPS/HIP HOP/JAZZ"

- See page 15 for "USER" settings.

Preset value setting for each sound mode

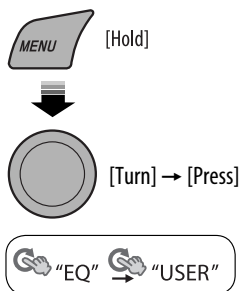
Sound mode	Preset value									
	BASS			MIDDLE			TREBLE			LOUD (loudness)
	Freq.	Level	Q	Freq.	Level	Q	Freq.	Level	Q	
USER	60 Hz	00	Q1.25	1.0 kHz	00	Q1.0	10.0 kHz	00	—	OFF
ROCK	100 Hz	+03	Q1.0	1.0 kHz	00	Q1.25	10.0 kHz	+02	—	
CLASSIC	80 Hz	+01	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	
POPS	100 Hz	+02	Q1.25	1.0 kHz	+01	Q1.25	10.0 kHz	+02	—	
HIP HOP	60 Hz	+04	Q1.0	1.0 kHz	-02	Q1.0	10.0 kHz	+01	—	
JAZZ	80 Hz	+03	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	

Freq.: Frequency Q: Q-slope

■ Storing your own sound mode

You can store your own adjustments in memory.

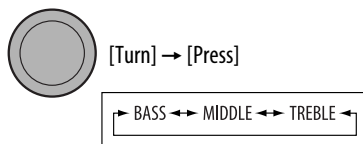
1 Select "USER" for "EQ."



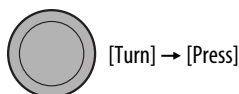
2 While "USER" is shown on the display...



3 Select a tone.



4 Adjust the sound elements of the selected tone.



- 1 Adjust the frequency.
- 2 Adjust the level.
- 3 Adjust the Q-slope.

Sound elements	Range/selectable items		
	BASS	MIDDLE	TREBLE
Frequency	60 Hz	0.5 kHz	10.0 kHz
	80 Hz	1.0 kHz	12.5 kHz
	100 Hz	1.5 kHz	15.0 kHz
	200 Hz	2.5 kHz	17.5 kHz
Level	-06 to +06	-06 to +06	-06 to +06
Q	Q1.0	Q0.75	Fixed
	Q1.25	Q1.0	
	Q1.5	Q1.25	
	Q2.0		

5 Repeat steps 3 and 4 to adjust other sound characteristics.

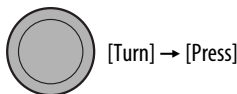
The adjustment made will be stored automatically.

Menu operations

1 Call up the menu.



2 Select the desired item.



3 Repeat step 2 if necessary.

- To return to the previous menu, press BACK.
- To exit from the menu, press DISP or MENU.





Initial: Underlined

Category	Menu items	Selectable settings, [reference page]
DEMO	DEMO Display demonstration	<ul style="list-style-type: none"> • <u>DEMO ON</u> : Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. • DEMO OFF : Cancels.
	CLOCK DISP *1 Clock display	<ul style="list-style-type: none"> • CLOCK ON : Clock time is shown on the display at all times when the power is turned off. • <u>CLOCK OFF</u> : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK	CLOCK SET Clock setting	: Adjust the hour, then the minute, [6]. (Initial: 0:00)
	24H/12H Time display mode	<ul style="list-style-type: none"> • <u>24 HOUR</u> : See also page 6 for setting. • 12 HOUR
	CLOCK ADJ *2 Clock adjustment	<ul style="list-style-type: none"> • <u>AUTO</u> : The built-in clock is automatically adjusted using the CT (clock time) data in the Radio Data System signal. • OFF : Cancels.
EQ	EQ Equalizer	: Select a preset sound mode suitable to the music genre. USER, ROCK, CLASSIC, POPS, HIP HOP, JAZZ
	DIMMER Dimmer	<ul style="list-style-type: none"> • DIMMER ON : Dims the display and button illumination. • <u>DIMMER OFF</u> : Cancels.
DISPLAY	SCROLL *3 Scroll	<ul style="list-style-type: none"> • <u>SCROLL ONCE</u> : Scrolls the displayed information once. • SCROLL AUTO : Repeats scrolling (at 5-second intervals). • <u>SCROLL OFF</u> : Cancels. <p>Pressing DISP for more than one second can scroll the display regardless of the setting.</p>
	TAG DISPLAY Tag display	<ul style="list-style-type: none"> • <u>TAG ON</u> : Shows the Tag information while playing MP3/WMA tracks. • TAG OFF : Cancels.

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" to save the car's battery.

*2 Takes effect only when CT data is received.

*3 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

Category	Menu items	Selectable settings, [reference page]
TUNER	AF-REG *4 Alternative frequency/ regionalization reception	<ul style="list-style-type: none"> • AF ON : When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [9]. <ul style="list-style-type: none"> • The AF indicator lights up. • AF-REG ON : When the currently received signals become weak, the unit switches to another station broadcasting the same programme. <ul style="list-style-type: none"> • The AF and REG indicators light up. • OFF : Cancels.
	PTY-STANDBY *4 PTY standby	PTY OFF, PTY codes : Activates PTY Standby Reception with one of the PTY codes, [9].
	TA VOLUME *4 Traffic announcement volume	VOLUME 00 : (Initial: VOLUME 15) – VOLUME 50 (or VOLUME 00 – VOLUME 30)*5
	P-SEARCH *4 Programme search	<ul style="list-style-type: none"> • SEARCH ON : Activates Programme Search, [9]. • SEARCH OFF : Cancels.
	MONO *6 Monaural mode	<ul style="list-style-type: none"> • MONO ON : Activate monaural mode to improve FM reception, but stereo effect will be lost, [7]. • MONO OFF : Restore the stereo effect.
	IF BAND Intermediate frequency band	<ul style="list-style-type: none"> • AUTO : Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) • WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
COLOR (for KD-R501)	COLOR 01 – COLOR 29, USER	: Select one of the preset or user color for display and button (except T/P/  ATT/  illumination. (For customize color settings, "USER," see page 19.)
MENU COLOR (for KD-R501)	MENU COLOR Menu color	<ul style="list-style-type: none"> • OFF : Cancels. • ON : Changes the display and button (except T/P/  ATT/  illumination during menu, list search and playback mode operations.

*4 Only for FM Radio Data System stations.

*5 Depends on the amplifier gain control.

*6 Displayed only when the source is "FM."

Continued on the next page

Category	Menu items	Selectable settings, [reference page]
AUDIO	FADER *7,*8 Fader	R06 – F06 : Adjust the front and rear speaker output balance. (Initial: 00)
	BALANCE *8 Balance	L06 – R06 : Adjust the left and right speaker output balance. (Initial: 00)
	LOUD Loudness	<ul style="list-style-type: none"> • LOUD OFF : Cancels. • LOUD ON : Boost low and high frequencies to produce a well-balanced sound at a low volume level.
	VOL ADJUST Volume adjust	VOL ADJ –05 — VOL ADJ +05 (Initial: VOL ADJ 00) <ul style="list-style-type: none"> • Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. • Before making an adjustment, select the source you want to adjust. • "VOL ADJ FIX" appears on the display if "FM" is selected as the source.
	L/O MODE Line output mode	<ul style="list-style-type: none"> • SUB.W : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier). • REAR : Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	SUB.W FREQ *9 Subwoofer cutoff frequency	<ul style="list-style-type: none"> • LOW : Frequencies lower than 72 Hz are sent to the subwoofer. • MID : Frequencies lower than 111 Hz are sent to the subwoofer. • HIGH : Frequencies lower than 157 Hz are sent to the subwoofer.
	SUB.W LEVEL *9 Subwoofer level	SUB.W 00 — SUB.W 08 : Adjust the subwoofer output level. (Initial: SUB.W 04)
	BEEP Key touch tone	<ul style="list-style-type: none"> • BEEP OFF : Deactivates the key touch tone. • BEEP ON : Activates the key touch tone.
	TEL MUTING Telephone muting	<ul style="list-style-type: none"> • MUTING 1/ MUTING 2 : Select either one which mutes the sounds while using a cellular phone. • MUTING OFF : Cancels.
	AMP GAIN *10 Amplifier gain control	<ul style="list-style-type: none"> • LOW POWER : VOLUME 00 – VOLUME 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.) • HIGH POWER : VOLUME 00 – VOLUME 50

*7 If you are using a two-speaker system, set the fader level to "00."

*8 This adjustment will not affect the subwoofer output.

*9 Displayed only when "L/O MODE" is set to "SUB.W."

*10 The volume level automatically changes to "VOLUME 30" if you change to "LOW POWER" with the volume level set higher than "VOLUME 30."

Category	Menu items	Selectable settings, [reference page]
SRC SELECT	AM* ¹¹	• AM OFF : Disable "AM" in source selection.
	AM station	• AM ON : Enable "AM" in source selection, [4].
	AUX IN* ¹²	• AUX OFF : Disable "AUX IN" in source selection.
	Auxiliary input	• AUX ON : Enable "AUX IN" in source selection, [4].

*¹¹ Displayed only when any source other than "AM" is selected.

*¹² Displayed only when any source other than "AUX IN" is selected.

Color settings (for KD-R501)

■ Creating your own color —USER Color

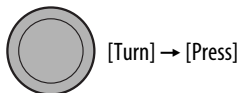
You can create your own colors—"DAY COLOR" or "NIGHT COLOR."

DAY COLOR: Used when "DIMMER" is set to "DIMMER OFF."

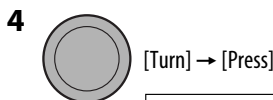
NIGHT COLOR: Used when "DIMMER" is set to "DIMMER ON."



2 Select "COLOR" → "USER."

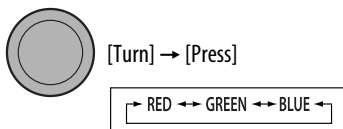


3 While "USER" is shown on the display...

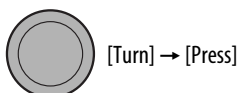


DAY COLOR ↔ NIGHT COLOR

5 Select a primary color.



6 Adjust the level (00 to 31) of the selected primary color.



If "00" is selected for all the primary colors, nothing appear on the display.

7 Repeat steps 5 and 6 to adjust other primary colors.

8 Exit from the setting.



- If no operation is done for about 30 seconds, the operation will be canceled.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops.
Next time you select "CD" as the playback source, playback will start from where it had been stopped previously.
- If no operation is done for about 30 seconds after pressing MENU button, the operation will be canceled.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and the stations are stored anew.
 - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM Radio Data System operations


- Network-Tracking Reception requires two types of Radio Data System signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3/WMA formats.
- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press  to eject the disc.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
 - This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
 - This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
 - Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation has occurred on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - The files on the CD-R/CD-RW are written using the “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
 - CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
 - Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
- Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.

- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows extension.
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 64 characters
 - Joliet: up to 32 characters
 - Windows extension: up to 64 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
 - MP3 files encoded in MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have data such as AIFF, ATRAC3, etc.
- The search function works but search speed is not constant.

Continued on the next page

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "CANNOT PLAY" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
 - Folder names : 32 characters
 - File names : 32 characters
 - MP3 Tag : 64 characters
 - WMA Tag : 32 characters
- This unit can recognize a total of 5 000 files, 255 folders (255 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit does not support SD card reader.

- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files not based on Windows Media® Audio.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

Menu operations

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "AUX IN" cannot be selected.	Check the "SRC SELECT" → "AUX IN" setting (see page 19).
	• KD-R501: Nothing appear on the display.	KD-R501: Check the USER Color settings (see page 19)
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
	• "AM" cannot be selected.	Check the "SRC SELECT" → "AM" setting (see page 19).
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display.	Insert a playable disc into the loading slot.
	• "PLEASE" and "EJECT" appear alternately on the display.	Press ▲, then insert a disc correctly.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.

Continued on the next page

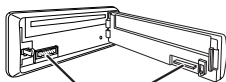
	Symptoms	Remedies/Causes
MP3/WMA playback	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• A longer readout time is required ("READING" keeps flashing on the display).	Do not use too many hierarchical levels and folders.
	• Tracks do not play back in the order you have intended them to play.	The playback order is determined when the files are recorded.
	• The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	• "NO FILE" appears on the display.	Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks. * Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.
	• The correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.
USB device playback	• Noise is generated.	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	• "READING" keeps flashing on the display.	<ul style="list-style-type: none"> • Readout time varies depending on the USB device. • Do not use too many hierarchy or folders. • Turn off the power then on again. • Reattach the USB device again.
	• "NO FILE" appears on the display.	Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks. * Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.
	• Tracks/folders are not played back in the order you have intended.	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	<ul style="list-style-type: none"> • "CANNOT PLAY" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device. 	<ul style="list-style-type: none"> • Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	• Correct characters are not displayed (e.g. album name).	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	• While playing a track, sound is sometimes interrupted.	The MP3/WMA tracks have not been properly copied into the USB device. Copy MP3/WMA tracks again into the USB device, and try again.

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:	Front/Rear:	50 W per channel
Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	Bass:	± 12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle:	± 12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble:	± 12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response:		40 Hz to 20 000 Hz
Signal-to-Noise Ratio:		70 dB
Line-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Output Impedance:		1 k Ω
Subwoofer-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Other Terminal:		USB input jack, AUX (auxiliary) input jack

TUNER SECTION

Frequency Range:	FM:	87.5 MHz to 108.0 MHz
	AM:	MW: 522 kHz to 1 620 kHz LW: 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity:	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity:	16.3 dBf (1.8 μ V/75 Ω)
	Alternate Channel Selectivity (400 kHz):	65 dB
	Frequency Response:	40 Hz to 15 000 Hz
	Stereo Separation:	30 dB
MW Tuner	Sensitivity:	20 μ V
	Selectivity:	35 dB
LW Tuner	Sensitivity:	50 μ V

CD PLAYER SECTION

Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate: 320 kbps

USB SECTION

USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Compatible Device:	Mass storage class
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	DC 5 V --- 500 mA

GENERAL

Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:		Negative ground
Allowable Operating Temperature:		0°C to +40°C
Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 160 mm
	Panel Size:	188 mm × 58 mm × 12 mm
Mass:		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?

Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Затруднения при эксплуатации?

Пожалуйста, перезагрузите Ваше устройство

Для получения информации о перезагрузке Вашего устройства обратитесь на соответствующую страницу

Αντιμετωπίζετε ΠΡΟΒΛΗΜΑΤΑ λειτουργίας;

Εκτελέστε επαναφορά της μονάδας

Ανατρέξτε στην ενότητα “Επαναφορά της μονάδας”

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technical Services Europe GmbH
Postfach 10 05 04
61145 Friedberg
Germany

Sehr geehrter Kunde, sehr geehrte Kundin,
dieses Gerät stimmt mit den gültigen europäischen Richtlinien und Normen bezüglich elektromagnetischer Verträglichkeit und elektrischer Sicherheit überein.

Die europäische Vertretung für die Victor Company of Japan, Limited ist:

JVC Technical Services Europe GmbH
Postfach 10 05 04
61145 Friedberg
Deutschland

Уважаемый клиент.

Данное устройство соответствует действительным Европейским директивам и стандартам по электромагнитной совместимости и электрической безопасности.

Представительство компании Victor Company of Japan, Limited в Европе:

JVC Technical Services Europe GmbH
Postfach 10 05 04
61145 Friedberg
Германия

Αγαπητέ πελάτη,
η συσκευή αυτή συμμορφώνεται με τις ισχύουσες Ευρωπαϊκές Οδηγίες και πρότυπα σχετικά με την ηλεκτρομαγνητική συμβατότητα και την ασφάλεια από ηλεκτρισμό.

Ο Ευρωπαϊκός αντιπρόσωπος της Victor Company of Japan, Limited είναι:

JVC Technical Services Europe GmbH
Postfach 10 05 04
61145 Friedberg
Γερμανία

JVC



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1008DTSMDTJEIN

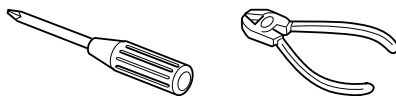


KD-R501/KD-R402/KD-R401

Installation/Connection Manual Einbau/Anschlußanleitung

Руководство по установке/подключению Εγχειρίδιο εγκατάστασης/συνδέσεων

GET0574-013A
[EY]



1008DTSMDTJEIN
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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

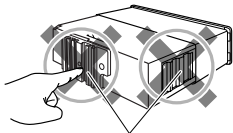
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 18 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink / Abstrahlblech
Радиатор / Ψύκτρα

DEUTSCH

Dieses Gerät ist für einen Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (-) Erdung ausgelegt**. Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC Autoradiohändler erworben werden kann.

WARNUNGEN

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird.

- **Sicherstellen, daß das Gerät nach dem Einbau a Chassis des Fahrzeugs geerdet wird.**

Hinweise:

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.
- Es wird empfohlen, Lautsprecher mit einer Maximalleistung von mehr als 50 W anzuschließen (sowohl hinten als auch vorne, mit einer Impedanz von **4 Ω bis 8 Ω**). Wenn die Maximalleistung weniger als 50 W beträgt, stellen Sie „AMP GAIN“ anders ein, um Schäden an den Lautsprechern zu vermeiden (siehe Seite 18 der BEDIENUNGSANLEITUNG).
- Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
- Das Abstrahlblech wird nach dem Gebrauch sehr heiß. Beim Ausbau des Geräts darauf achten, das Abstrahlblech nicht zu berühren.

РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобильного специалиста JVC.

ПРЕДУПРЕЖДЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

- **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобильного специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4 Ω до 8 Ω**). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 18).
- Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

ΕΛΛΗΝΙΚΑ

Η συσκευή αυτή είναι σχεδιασμένη να λειτουργεί σε ηλεκτρικά συστήματα οχημάτων στα **12 V DC, με ΑΡΝΗΤΙΚΗ γείωση**. Εάν το όχημά σας δεν ανήκει στην κατηγορία αυτή, θα χρειαστείτε ένα μετατροπέα τάσης, τον οποίο μπορείτε να προμηθευτείτε από τους αντιπροσώπους συστημάτων ψυχαγωγίας οχημάτων της JVC.

ΠΡΟΦΥΛΑΞΕΙΣ

Για την αποτροπή τυχόν βραχυκυκλωμάτων, συνιστούμε να αποσυνδέετε τον αρνητικό πόλο της μπαταρίας και να κάνετε όλες τις ηλεκτρικές συνδέσεις πριν από την εγκατάσταση της συσκευής.

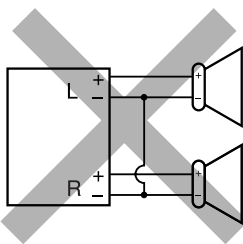
- **Βεβαιωθείτε ότι θα γείωσετε τη συσκευή αυτή στο αμάξωμα του οχήματος ξανά μετά την εγκατάσταση.**

Σημειώσεις:

- Εάν καεί η ασφάλεια, αντικαταστήστε την με καινούργια των ίδιων ονομαστικών χαρακτηριστικών. Εάν η ασφάλεια καίγεται συχνά, συμβουλευτείτε τον αντιπρόσωπο συστημάτων ψυχαγωγίας οχημάτων της JVC.
- Συνιστάται να συνδέετε ηχεία μέγιστης ισχύος πάνω από 50 W (τόσο πίσω όσο και μπροστά, με σύνθετη αντίσταση **4 Ω έως 8 Ω**). Εάν η μέγιστη ισχύς των ηχείων είναι μικρότερη από 50 W, αλλάξτε τη ρύθμιση "AMP GAIN" (Απολαβή ενισχυτή) για να αποτρέψετε ενδεχόμενη καταστροφή τους (βλ. σελίδα 18 στις ΟΔΗΓΙΕΣ).
- Για να αποτρέψετε τυχόν βραχυκυκλώματα, καλύπτετε τους ακροδέκτες των καλωδίων ΠΟΥ ΔΕ ΧΡΗΣΙΜΟΠΟΙΕΙΤΕ με μονωτική ταινία.
- Η ψύκτρα ζεσταίνεται πολύ κατά τη χρήση. Προσέχετε να μην την αγγίξετε καθώς αφαιρείτε τη συσκευή.

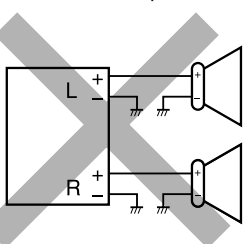
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



VORSICHTSMASSREGELN beim Anschließen der Stromversorgung und Lautsprecher:

- Die Lautsprecherleitungen des Netzkabels **NICHT** an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.
- VOR dem Anschließen der Lautsprecherleitungen des Spannungsversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.

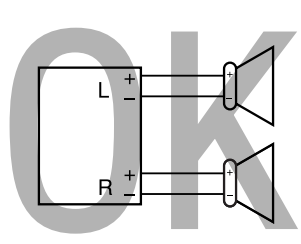


ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:

- **НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.**
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.

ΠΡΟΦΥΛΑΞΕΙΣ κατά τις συνδέσεις τροφοδοσίας ρεύματος και ηχείων:

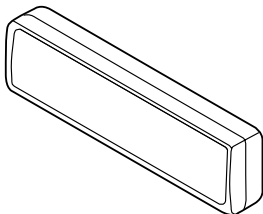
- **ΜΗ συνδέετε τα καλώδια ηχείων της συσκευής με την μπαταρία του οχήματος, διότι ενδέχεται να προκληθεί σοβαρή ζημιά στη συσκευή.**
- ΠΡΟΤΟΥ συνδέσετε τα καλώδια ηχείων της συσκευής με τα ηχεία, ελέγξτε την καλωδίωση των ηχείων του οχήματος.



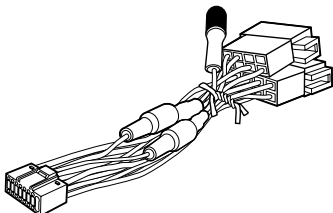
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

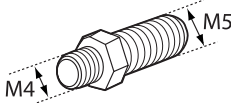
Ⓐ Control panel
Schalttafel
Πάνελ управления
Πρόσοψη



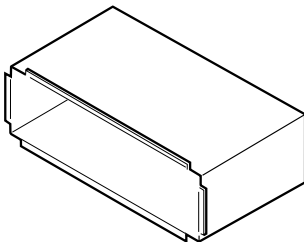
Ⓓ Power cord
Stromkabel
Καбель питания
Δέσμη καλωδίων ρεύματος



Ⓒ Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)
Befestigungsschraube (M4 × 5 mm; M5 × 12,5 mm)
Κρεπεζный болт (M4 × 5 мм; M5 × 12,5 мм)
Βίδα στερέωσης (M4 × 5 mm; M5 × 12,5 mm)



Ⓑ Sleeve
Halterung
Муфта
Βάση



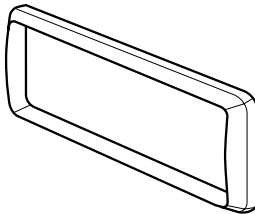
Ⓔ Washer (ø5)
Unterlegscheibe (ø5)
Шайба (№5)
Ροδέλα (ø5)



Ⓗ Rubber cushion
Gummipuffer
Резиновый чехол
Ελαστικό παρέμβυσμα



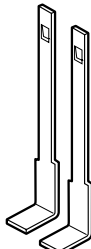
Ⓒ Trim plate
Frontrahmen
Декоративную панель
Διακοσμητικό πλαίσιο



Ⓕ Lock nut (M5)
Sicherungsmutter (M5)
Фиксирующая гайка (M5)
Ασφαλιστικό παξιμάδι (M5)



Ⓘ Handles
Griffe
Рычаги
Κλειδιά



Κατάλογος εξαρτημάτων για την εγκατάσταση και τις συνδέσεις

Η συσκευή αυτή συνοδεύεται από τα εξαρτήματα που αναφέρονται κατωτέρω. Αν λείπει κάποιο στοιχείο, συμβουλευτείτε αμέσως τον αντιπρόσωπο συστημάτων ψυχαγωγίας οχημάτων της JVC.

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

EINBAU (IM ARMATURENBRETT)

Die folgende Abbildung zeigt einen typischen Einbau. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC Autoradiohändler oder ein Unternehmen das diese Einbausätze vertreibt.

- Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобильного специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.

ΕΓΚΑΤΑΣΤΑΣΗ (ΤΟΠΟΘΕΤΗΣΗ ΣΤΟ ΤΑΜΠΛΩ)

Η εικόνα που ακολουθεί απεικονίζει μια τυπική εγκατάσταση. Για οποιαδήποτε απορία σας ή για περισσότερες πληροφορίες σχετικά με kit εγκατάστασης, απευθυνθείτε στον αντιπρόσωπο συστημάτων ψυχαγωγίας οχημάτων της JVC ή σε εταιρείες που παρέχουν τέτοια kit.

- Εάν έχετε αμφιβολίες σχετικά με τη σωστή εγκατάσταση της συσκευής αυτής, αναθέστε την εγκατάστασή της σε κατάλληλα εκπαιδευμένο τεχνικό.

1

2

3

Do the required electrical connections. Nehmen Sie die erforderlichen elektrischen Anschlüsse vor. Выполните необходимые подключения контактов, как показано на оборотной стороне этой инструкции. Κάντε τις αναγκαίες ηλεκτρικές συνδέσεις.

Bend the appropriate tabs to hold the sleeve firmly in place. Die geeigneten Zapfen biegen, um die Manschette sicher festzuhalten. Οτογните соответствующие фиксаторы, предназначенные для прочной установки корпуса. Λυγίστε τις κατάλληλες γλωττίδες για να συγκρατηθεί η βάση σταθερά στη θέση της.

Removing the unit

Before removing the unit, release the rear section.

Ausbau des Geräts

Vor dem Ausbau des Geräts den hinteren Teil freigeben.

Удаление устройства

Перед удалением устройства освободите заднюю часть.

Αφαίρεση της συσκευής

Προτού αφαιρέσετε τη συσκευή, απασφαλίστε το πίσω μέρος.

1

2

3

Insert the two handles, then pull them as illustrated so that the unit can be removed. Die beiden Handgriffe einsetzen und dann ziehen wie in der Abbildung gezeigt, so daß das Gerät entfernt werden kann. Вставьте два рычажка, затем потяните их, как показано на рисунке, чтобы вынуть устройство. Εισαγάγετε τις δύο λαβές και κατόπιν τραβήξτε τις, όπως φαίνεται στην εικόνα, με τρόπο ώστε να είναι δυνατή η αφαίρεση της συσκευής.

When using the optional stay / Beim Verwenden der Anker-Option / При использовании дополнительной стойки / Όταν χρησιμοποιείτε το προαιρετικό στήριγμα

Stay (option)
Anker (Option)
Стойка (дополнительно)
Γωνιακό στήριγμα (προαιρετικό)

Fire wall
Feuerwand
Стена
Διαχωριστικό τοίχωμα μηχανής

Dashboard
Armaturenbrett
Приборная панель
Ταμπλώ

Screw (option)
Schraube (Option)
Винт (дополнительно)
Βίδα (προαιρετική)

30°

Install the unit at an angle of less than 30°. Stellen Sie das Gerät mit einem Winkel von weniger als 30° auf. Установите устройство под углом менее 30°. Τοποθετήστε τη μονάδα υπό γωνία μικρότερη των 30°.

When installing the unit without using the sleeve / Beim Einbau des Geräts ohne Halterung / При установке устройства без использования муфты / Όταν τοποθετείτε τη συσκευή χωρίς χρήση της βάσης

Flat type screws (M5 × 8 mm)*2
Senkkopfschrauben (M5 × 8 mm)*2
Крепежные винты (M5 × 8 мм)*2
Πλακέ βίδες (M5 × 8 mm)*2

Bracket*2 / Konsole*2 / Кронштейн*2 / Γλωττίδα στερέωσης*2

Pocket / Taschen / Карман / Εσοχή

Flat type screws (M5 × 8 mm)*2
Senkkopfschrauben (M5 × 8 mm)*2
Крепежные винты (M5 × 8 мм)*2
Πλακέ βίδες (M5 × 8 mm)*2

Note

: When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Hinweis

: Beim Anbringen des Gerät an der Konsole sicherstellen, daß 8 mm lange Schrauben verwendet werden. Werden längere Schrauben verwendet, können sie das Gerät beschädigen.

Примечание

: При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

Σημείωση

: Όταν τοποθετείτε τη συσκευή στο στήριγμα στερέωσης, βεβαιωθείτε ότι θα χρησιμοποιήσετε τις βίδες μήκους 8 mm. Εάν χρησιμοποιήσετε μακρύτερες βίδες, ενδέχεται να προκαλέσετε ζημιά στη συσκευή.

*1 When you stand the unit, be careful not to damage the fuse on the rear.

*2 Not supplied for this unit.

*1 Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.

*2 Wird nicht mit Gerät mitgeliefert.

*1 Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.

*2 Не входит в комплект поставки.

*1 Όταν τοποθετείτε τη συσκευή σε όρθια θέση, προσέχετε να μην προκαλέσετε ζημιά στην ασφάλεια που βρίσκεται στο πίσω μέρος της συσκευής.

*2 Δε συμπεριλαμβάνονται στη συσκευασία της συσκευής αυτής.

2

ELECTRICAL CONNECTIONS

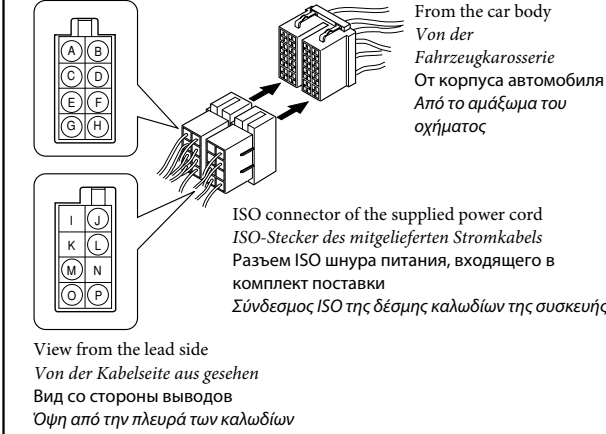
ELEKTRISCHE ANSCHLÜSSE

ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

ΗΛΕΚΤΡΙΚΕΣ ΣΥΝΔΕΣΕΙΣ

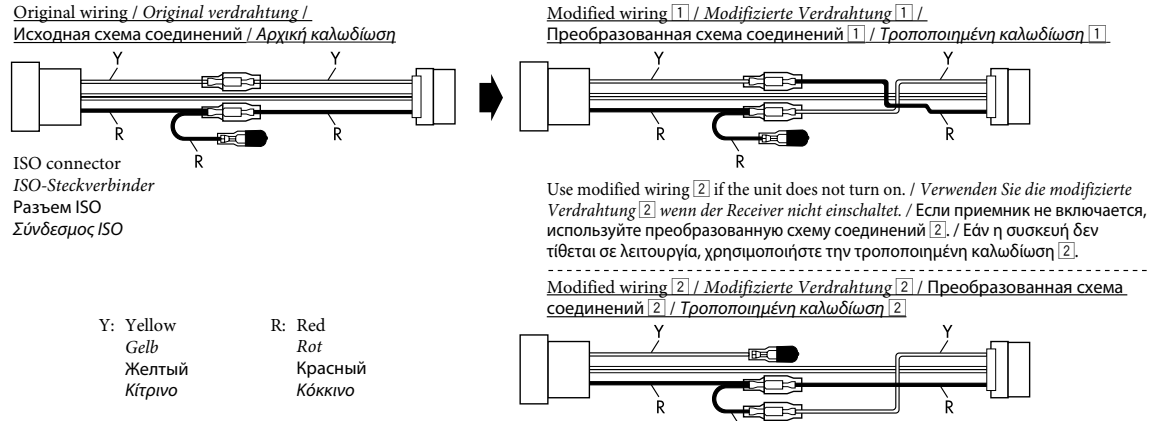
A If your car is equipped with the ISO connector / Wenn Ihr Fahrzeug mit dem ISO-Steckverbinder ausgestattet ist / Если автомобиль оснащен разъемом ISO / Εάν το όχημά σας διαθέτει σύνδεσμο ISO

- Connect the ISO connectors as illustrated.
- Schließen Sie die ISO-Steckverbinder an, wie in der Abbildung gezeigt.
- Подключите разъемы ISO, как показано на рисунке.
- Συνδέστε τους συνδέσμους ISO σύμφωνα με την εικόνα.



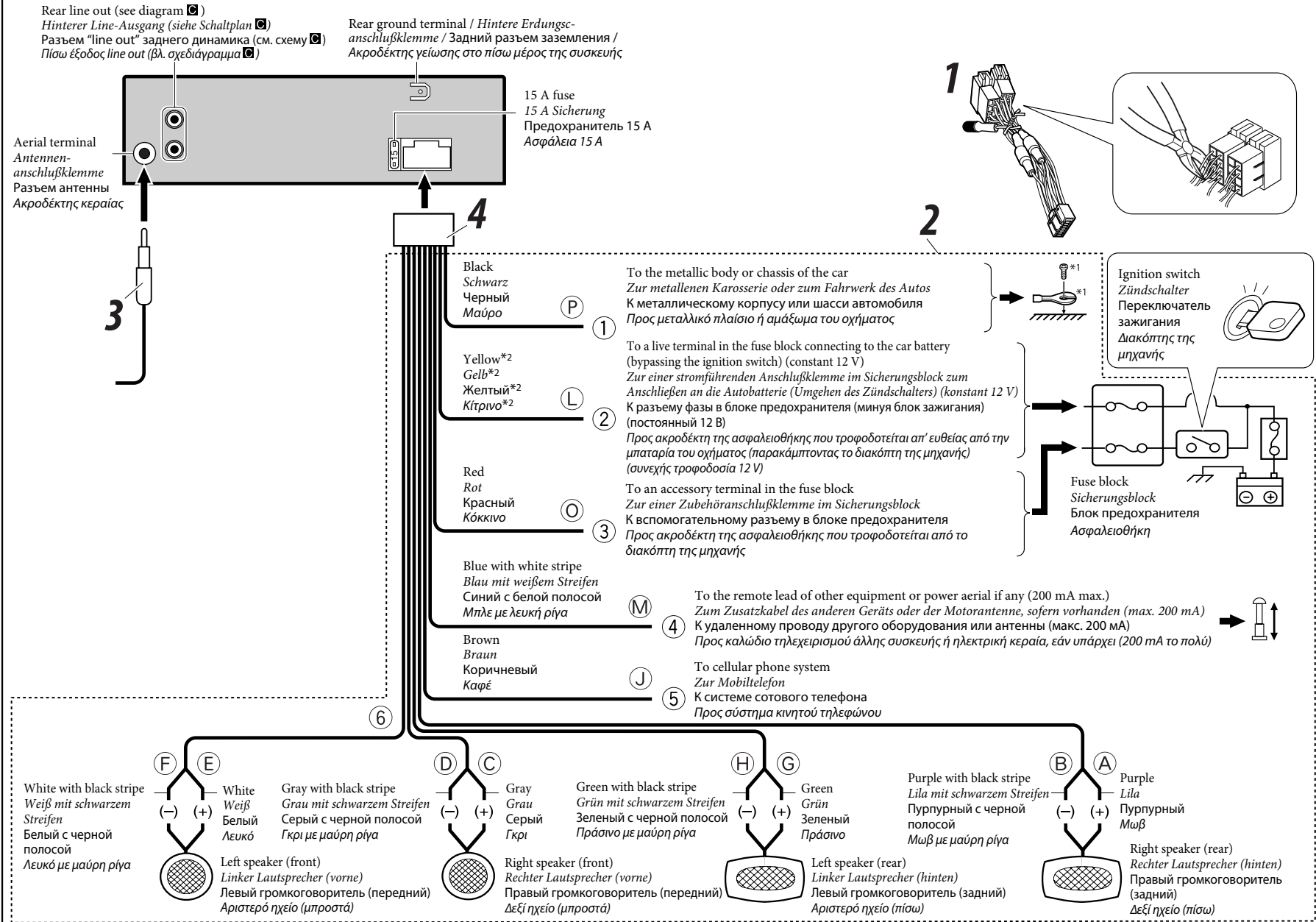
For some VW/Audi or Opel (Vauxhall) automobiles / Bei bestimmten VW-/Audi- oder Opel- (Vauxhall-) Fahrzeugen / Для некоторых автомобилей VW/Audi или Opel (Vauxhall) / Για ορισμένα αυτοκίνητα VW/Audi ή Opel (Vauxhall)

- You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.
 - Es kann erforderlich sein, die Verdrahtung des mitgelieferten Stromkabels zu modifizieren, wie in der Abbildung gezeigt.
 - Wenden Sie sich vor dem Einbau dieses Receivers an Ihre Auto-Fachwerkstatt.
 - Возможно, потребуется изменить схему соединений для прилагаемого шнура питания, как показано на рисунке.
 - Перед установкой приемника обратитесь к авторизованному агенту по продажам автомобильных систем.
 - Ενδέχεται να χρειαστεί να τροποποιήσετε την καλωδίωση της παρεχόμενης δέσμης καλωδίων ρεύματος, σύμφωνα με την εικόνα.
 - Προτού εγκαταστήσετε τη συσκευή αυτή, απευθυνθείτε στον εξουσιοδοτημένο αντιπρόσωπο του οχήματός σας.



B Connections without using the ISO connector / Anschlüsse ohne Verwendung des ISO-Steckverbinders / Подключение без использования разъема ISO / Συνδέσεις χωρίς τη χρήση των συνδέσμων ISO

- Before connecting:** Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
- Vor dem Anschließen:** Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen. Die Leiter des Stromkabels und die Leiter des Anschlusses im Fahrzeug können sich farblich unterscheiden.
- Перед началом подключений:** Тщательно проверьте проводку в автомобиле. Неправильное подключение может привести к серьезному повреждению устройства. Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.
- Πριν από τη σύνδεση:** Ελέγξτε προσεκτικά την καλωδίωση του οχήματος. Η τυχόν εσφαλμένη σύνδεση είναι δυνατό να προκαλέσει σοβαρή ζημιά στη συσκευή. Τα καλώδια της δέσμης καλωδίων ρεύματος της συσκευής ενδέχεται να μην έχουν το ίδιο χρώμα με τα καλώδια του συνδέσμου του οχήματος.
- Cut the ISO connector.
 - Connect the colored leads of the power cord in the order specified in the illustration below.
 - Connect the aerial cord.
 - Finally connect the wiring harness to the unit.
- Schneiden Sie den ISO-Steckverbinder auf.
 - Die farbigen Adern des Stromkabels in der Reihenfolge anschließen, wie in der Abbildung unten gezeigt.
 - Das Antennenkabel anschließen.
 - Die Kabelbäume am Gerät anschließen.
- Обрежьте разъем ISO.
 - Подсоедините цветные провода шнура питания в указанном ниже порядке.
 - Подключите кабель антенны.
 - В последнюю очередь подключите электропроводку к устройству.
- Κόψτε τον συνδετήρα ISO.
 - Συνδέστε τα χρωματιστά καλώδια της δέσμης καλωδίων ρεύματος, με τη σειρά που καθορίζεται στην εικόνα ανωτέρω.
 - Συνδέστε το ομοαξονικό καλώδιο της κεραίας.
 - Τέλος, συνδέστε το βύσμα της δέσμης καλωδίων ρεύματος στη συσκευή.



*1 Not supplied for this unit.

*2 Before checking the operation of this unit prior to installation, this lead must be connected; otherwise, the power cannot be turned on.

*1 Wird nicht mit Gerät mitgeliefert.

*2 Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet werden kann.

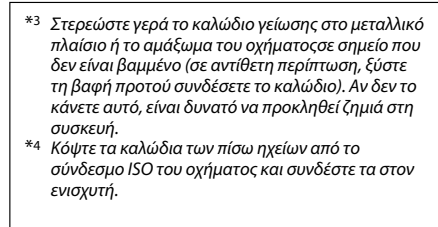
*1 Не входит в комплект поставки.

*2 Перед проверкой работы устройства подключите этот провод, иначе питание не включится.

*1 Δε συμπεριλαμβάνονται στη συσκευασία της συσκευής αυτής.

*2 Προτού ελέγξετε τη λειτουργία της συσκευής, πριν από την εγκατάστασή της, θα πρέπει να συνδέσετε το καλώδιο αυτό, διαφορετικά η συσκευή δε θα τεθεί σε λειτουργία.

- Μπορείτε να συνδέσετε έναν ενισχυτή για να αναβαθμίσετε το στερεοφωνικό σύστημα του αυτοκινήτου σας.
- Συνδέστε το καλώδιο τηλεχειρισμού (μπλε με λευκή ρίγα) με το καλώδιο τηλεχειρισμού της άλλης συσκευής, για να μπορείτε να ελέγχετε τη δεύτερη μέσω της πρώτης.
- Αποσυνδέστε τα ηχεία από τη συσκευή αυτή και συνδέστε τα με τον ενισχυτή. Αφήστε τα καλώδια ηχείων της συσκευής αυτής ασύνδετα.

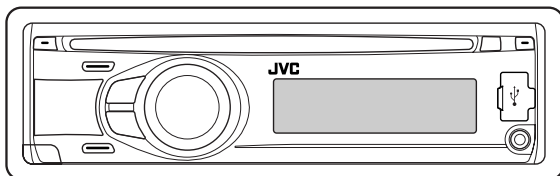
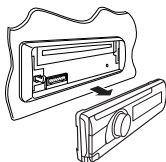


- **Η ασφάλεια καίγεται.**
- * Είναι το κόκκινο και το μαύρο καλώδιο σωστά συνδεδεμένα;
- **Η συσκευή δεν τίθεται σε λειτουργία.**
- * Είναι το κίτρινο καλώδιο συνδεδεμένο;
- **Δεν παράγεται ήχος στα ηχεία.**
- * Μήπως το καλώδιο εξόδου προς τα ηχεία είναι βραχυκυκλωμένο;
- **Ο ήχος παράγεται με παραμόρφωση.**
- * Μήπως το καλώδιο εξόδου προς τα ηχεία είναι γειωμένο;
- * Μήπως οι ακροδέκτες “—” των αριστερών (L) και των δεξιών (R) ηχείων είναι γειωμένοι σε κοινό σημείο;
- **Ο θόρυβος προκαλεί παρεμβολές στους παραγόμενους ήχους.**
- * Είναι οι πίσω ακροδέκτες γείωσης συνδεδεμένοι με το αμάξωμα του αυτοκινήτου με κοντύτερο και παχύτερο καλώδιο;
- **Η συσκευή ζεσταίνεται πολύ.**
- * Μήπως το καλώδιο εξόδου προς τα ηχεία είναι γειωμένο;
- * Μήπως οι ακροδέκτες “—” των αριστερών (L) και των δεξιών (R) ηχείων είναι γειωμένοι σε κοινό σημείο;
- **Ο δέκτης αυτός δεν λειτουργεί καθόλου.**
- * Έχετε επαναφέρει το δέκτη;

JVC

CD RECEIVER РЕСИВЕР С ПРОИГРЫВАТЕЛЕМ КОМПАКТ-ДИСКОВ ПРИЙМАЧ З ПРОГРАВАЧЕМ КОМПАКТ-ДИСКІВ

KD-R407



Radio Data System



**MP3
WMA**

В соответствии с Законом Российской Федерации "О защите прав потребителей" срок службы (годности) данного товара "по истечении которого он может представлять опасность для жизни, здоровья потребителя, причинять вред его имуществу или окружающей среде" составляет семь (7) лет со дня производства. Этот срок является временем, в течение которого потребитель данного товара может безопасно им пользоваться при условии соблюдения инструкции по эксплуатации данного товара, проводя необходимое обслуживание, включающее замену расходных материалов и/или соответствующее ремонтное обеспечение в специализированном сервисном центре.

Дополнительные косметические материалы к данному товару, поставляемые вместе с ним, могут храниться в течение двух (2) лет со дня его производства.

Срок службы (годности), кроме срока хранения дополнительных косметических материалов, упомянутых в предыдущих двух пунктах, не затрагивает никаких других прав потребителя, в частности, гарантийного свидетельства JVC, которое он может получить в соответствии с законом о правах потребителя или других законов, связанных с ним.

For canceling the display demonstration, see page 6.

Информацию об отмене демонстрации функций дисплея см. на стр. 6.

Інформацію щодо відміни демонстрації функцій дисплею див. на стор. 6.

For installation and connections, refer to the separate manual.

Указания по установке и выполнению соединений приводятся в отдельной инструкции.

Вказівки по встановленню та виконанню підключень наведені у окремій інструкції.

INSTRUCTIONS ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ ІНСТРУКЦІЇ



GET0575-001A

[EE]

ENGLISH

РУССКИЙ

УКРАЇНА

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. CAUTION: Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN, DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	VARNING SYNUG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÅR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学機器で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)
--	---	--	---	--	--



[European Union only]

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

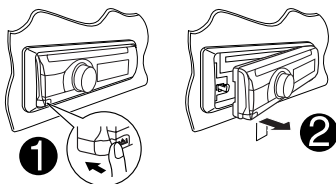
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Available characters on the display

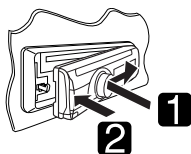
- ☒ Available characters
☐ Display indications

А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М
а	б	в	г	д	е	ж	з	и	й	к	л	м
Н	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ
н	о	п	р	с	т	у	ф	х	ц	ч	ш	щ
Ъ	Ы	Ь	Э	Ю	Я	Ё	А	В	С	Д	Е	Ф
ъ	ы	ь	э	ю	я	ё	а	в	с	д	е	ф
G	H	I	J	K	L	M	N	O	P	Q	R	S
g	h	i	j	k	l	m	n	o	p	q	r	s
T	U	V	W	X	Y	Z	0	1	2	3	4	5
t	u	v	w	x	y	z	0	1	2	3	4	5
6	7	8	9	-	/	<	>	space				
6	7	8	9	-	/	<	>					

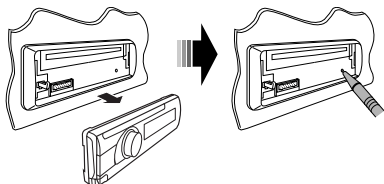
■ Detaching the control panel



■ Attaching the control panel

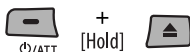


■ How to reset your unit



- Your preset adjustments will also be erased.

■ How to forcibly eject a disc



- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, see page 10.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

This mark is used to indicate...



Turn the control dial to make a selection, then press to confirm the selection.

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Attaching the control panel	3
How to reset your unit	3
How to forcibly eject a disc.....	3

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EXTERNAL DEVICES

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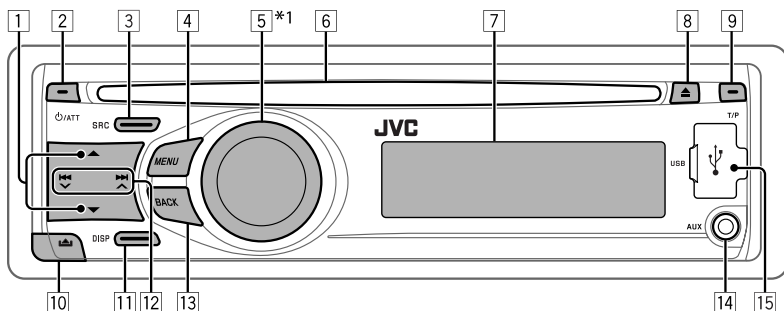
SETTINGS

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Basic operations



- 1 • **FM/AM**: Select preset station.
- **CD/USB**: Select folder.
- 2 • Turn on the power.
- Attenuate the sound (if the power is on).
- Turn off the power [Hold].
- 3 Select the source.
FM → CD*2 → USB → AUX IN*3 → AM*3 → FM-LO → (back to the beginning)
- 4 • Enter list operations.
- Enter Menu setting [Hold].
- 5 • Control the volume*4 or select items [Turn].
- Confirm the selection [Press].
- **FM**: Enter SSM preset mode [Hold].
- **CD/USB**: Enter playback mode [Hold].
- Pause/resume playback*4 [Press].
- 6 Loading slot
- 7 Display window
- 8 Eject disc.
- 9 • Activate/deactivate TA Standby Reception.
- Enter PTY Searching mode [Hold].

- 10 Detach the panel.
- 11 Change the display information.
- 12 • **FM/AM**: Search for station.
- **CD/USB**: Select track.
- 13 Return to the previous menu.
- 14 AUX (auxiliary) input jack
- 15 USB (Universal Serial Bus) input jack

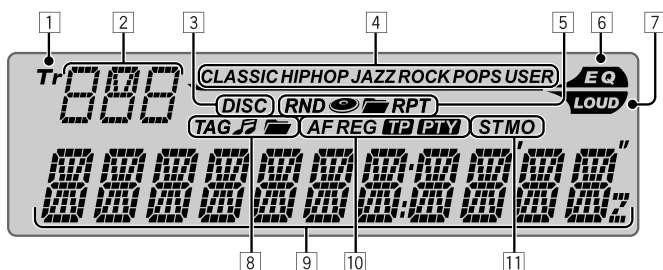
*1 Also known as "Control dial" in this manual.

*2 You cannot select "CD" as the playback source if no disc is in the unit.

*3 You cannot select these sources if they were disabled in the Menu (see "SRC SELECT" in "Menu operations" on page 17).

*4 You can still adjust the volume during pause when the selected source is CD/USB. Before resume playback, check to be sure that you have not raise the volume level too much.

Display window







- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Tr (track) indicator 2 Source display / Track number / Folder number / Time countdown indicator 3 DISC indicator 4 Sound mode indicators—CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER 5 Playback mode / item indicators— RND (random), (disc icon) (disc), (folder icon) (folder), RPT (repeat) 6 EQ (equalizer) indicator | <ul style="list-style-type: none"> 7 LOUD (loudness) indicator 8 Disc information indicators— TAG (Tag information), (track/file icon) (track/file), (folder icon) (folder) 9 Main display 10 Radio Data System indicators—AF, REG, TP, PTY 11 Tuner reception indicators—ST (stereo), MO (monaural) |
|---|---|

Preparation

■ Canceling the display demonstration and setting the clock

- See also page 15.

1	 	Turn on the power.
2	  <p>[Hold] Press and hold until the main menu is called up.</p> <p>[Turn] → [Press] • Repeat this procedure.</p>	<p>Cancel the display demonstrations Select "DEMO," then "DEMO OFF."</p> <p>Set the clock Select "CLOCK" → "CLOCK SET." Adjust the hour, then press control dial once to proceed to adjust the minute. Select "24H/12H," then "24 HOUR" or "12 HOUR."</p> <ul style="list-style-type: none"> • To return to the previous menu, press BACK.

Changing the display information

DISP 

When the power is turned off: The current clock time is displayed if "CLOCK DISP" is set to "CLOCK OFF," (see page 15).


When the power is turned on: The display information of the current source changes as follows:

FM/AM:	Station Frequency → Clock → (back to the beginning)
FM Radio Data System:	Station name (PS) → Station Frequency → Programme type (PTY) → Clock → (back to the beginning)
CD:	Audio CD/CD Text: Disc title/performer* ¹ → Track title* ¹ → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)
CD/USB:	MP3/WMA: Album name/performer (folder name)* ² → Track title (file name)* ² → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)

*¹ If the current disc is an audio CD, "NO NAME" appears.

*² If an MP3/WMA file does not have Tag information or "TAG DISPLAY" is set to "TAG OFF" (see page 15), folder name and file name appear.

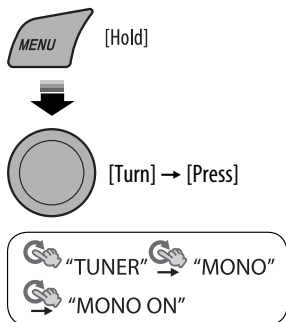
Listening to the radio

1		Select "FM," "AM," or "FM-LO."
2		<p>Search for a station to listen—Auto Search.</p> <p>When a station is tuned in, searching stops. To stop searching, press the same button again.</p> <ul style="list-style-type: none"> You can also search for a station manually—Manual Search. Hold either one of the buttons until "M" flashes on the display, then press it repeatedly. When receiving an FM stereo broadcast with sufficient signal strength, the ST indicator lights up on the display. <p>Note:</p> <p>FM: 87.5 MHz – 108.0 MHz</p> <p>FM-LO: 65.00 MHz – 74.00 MHz</p>

Improving the FM reception

When an FM stereo broadcast is hard to receive, activate monaural mode for better reception.

- See also page 16.



Reception improves, but stereo effect will be lost.

- The MO indicator lights up on the display.

To restore the stereo effect, repeat the same procedure to select "MONO OFF." The MO indicator goes off.

Storing stations in memory

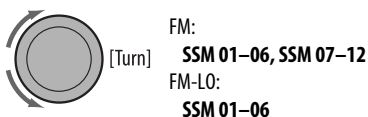
Automatic presetting (FM/FM-LO)—SSM (Strong-station Sequential Memory)

You can preset up to 12 stations for FM, and 6 stations for FM-LO.

1 While listening to a station...








2 Select the preset number range you want to store.



3



Local FM stations with the strongest signals are searched and stored automatically.

- To stop searching**, press     .

To preset other 6 stations, repeat from step 1 again.

Continued on the next page

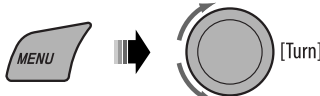
Manual presetting (FM/AM)

You can preset up to 12 stations for FM, 6 stations for FM-LO, and 6 stations for AM.

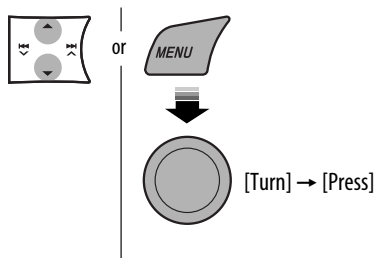
Ex.: Storing FM station of 92.50 MHz into preset number "04."



2 Select preset number "04."



Selecting preset station



The following features are available only for FM Radio Data System stations.

Searching for FM Radio Data System programme—PTY Search

You can tune in to a station broadcasting your favorite programme by searching for a PTY code.

1  [Hold] The last selected PTY code appears.

2 Select one of your favorite programme types or a PTY code.



3 Start searching for your favorite programme.



If a station is broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

Using the standby receptions

TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM and FM-LO.

The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 16).

To activate TA Standby Reception



The TP (Traffic Programme) indicator either lights up or flashes.

- If the TP indicator lights up, TA Standby Reception is activated.
- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the Radio Data System signals required for TA Standby Reception.) To activate the reception, tune in to another station providing these signals. The TP indicator will stop flashing and remain lit.

To deactivate the TA Standby Reception



The TP indicator goes off.

PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite PTY programme from any source other than AM and FM-LO.

To activate and select your favorite PTY code for PTY Standby Reception, see page 16.

The PTY indicator either lights up or flashes.

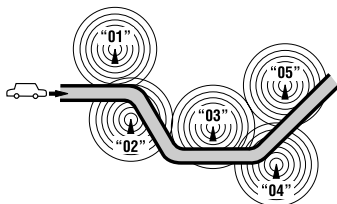
- If the PTY indicator lights up, PTY Standby Reception is activated.
- If the PTY indicator flashes, PTY Standby Reception is not yet activated. To activate the reception, tune in to another station providing these signals. The PTY indicator will stop flashing and remain lit.

To deactivate the PTY Standby Reception, select "PTY OFF" for the PTY code (see page 16). The PTY indicator goes off.

Tracing the same programme— Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM Radio Data System station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration below).

Programme A broadcasting on different frequency areas (01 – 05)



When shipped from the factory, Network-Tracking Reception is activated.

To change the Network-Tracking Reception setting, see "AF-REG" on page 16.

Automatic station selection— Programme Search

Usually when you select a preset number, the station preset in that number is tuned in.


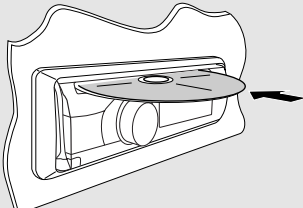
If the signals from the FM Radio Data System preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency possibly broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 16.

PTY codes

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

Disc operations

1	 1	Turn on the power.
2		Insert a disc. All tracks will be played repeatedly until you change the source or eject the disc.

Stop playing and ejecting the disc



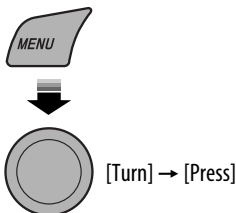
- “NO DISC” appears. Press SRC to listen to another playback source.

Prohibiting disc ejection



To cancel the prohibition, repeat the same procedure.

Selecting a track/folder



- For MP3/WMA discs, select the desired folder, then the desired track by repeating the control dial procedures.
- To return to the previous menu, press BACK.

Pressing (or holding) the following buttons allows you to...

	[Press] Pause/resume playback
	MP3/WMA: Select folder
	[Press] Select track [Hold] Reverse/fast-forward track

Selecting the playback modes

You can use only one of the following playback modes at a time.

- 1 [Hold]
- 2 [Turn] → [Press]

REPEAT ↔ RANDOM



[Turn] → [Press]

- To cancel repeat play or random play, select "RPT OFF" or "RND OFF."
- To return to the previous menu, press BACK.

REPEAT

TRACK RPT : Repeats current track

FOLDER RPT : MP3/WMA: Repeats current folder

RANDOM

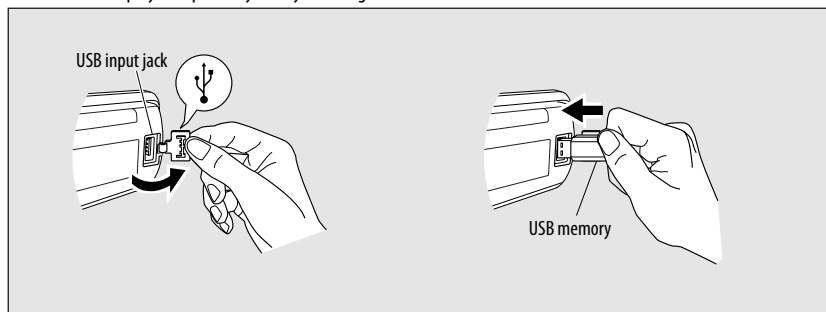
FOLDER RND : MP3/WMA: Randomly plays all tracks of current folder, then tracks of next folders

ALL RND : Randomly plays all tracks

Listening to the USB device

This unit can play MP3/WMA tracks stored in a USB device.

All tracks will be played repeatedly until you change the source or detach the USB device.



If a USB device has been attached...

SRC



Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.

- Press SRC to listen to another playback source.

You can operate the USB device in the same way you operate the files on a disc. (See pages 10 and 11.)

Continued on the next page


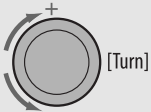
Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out and attach the USB device repeatedly while "READING" is shown on the display.
- Do not start the car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see page 20.

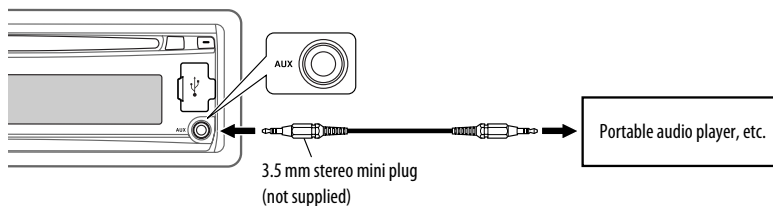
Listening to the other external components

You can connect an external component to AUX (auxiliary) input jack on the control panel.

Preparation: Make sure "AUX ON" is selected in the "SRC SELECT" → "AUX IN" setting, see page 17.

1	SRC 	Select "AUX IN."
2	—	Turn on the connected component and start playing the source.
3	 [Turn]	Adjust the volume.
4	—	Adjust the sound as you want (see pages 13 and 14).

Connecting an external component to the AUX input jack



Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre.

- See also page 15.



[Hold]



[Turn] → [Press]



"EQ"



"USER/ROCK/CLASSIC/POPS/HIP HOP/JAZZ"

- See page 14 for "USER" settings.

Preset value setting for each sound mode

Sound mode	Preset value									
	BASS			MIDDLE			TREBLE			LOUD (loudness)
	Freq.	Level	Q	Freq.	Level	Q	Freq.	Level	Q	
USER	60 Hz	00	Q1.25	1.0 kHz	00	Q1.0	10.0 kHz	00	—	OFF
ROCK	100 Hz	+03	Q1.0	1.0 kHz	00	Q1.25	10.0 kHz	+02	—	
CLASSIC	80 Hz	+01	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	
POPS	100 Hz	+02	Q1.25	1.0 kHz	+01	Q1.25	10.0 kHz	+02	—	
HIP HOP	60 Hz	+04	Q1.0	1.0 kHz	-02	Q1.0	10.0 kHz	+01	—	
JAZZ	80 Hz	+03	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	

Freq.: Frequency Q: Q-slope

■ Storing your own sound mode

You can store your own adjustments in memory.

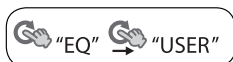
1 Select "USER" for "EQ."



[Hold]



[Turn] → [Press]



2 While "USER" is shown on the display...



[Hold]

3 Select a tone.



[Turn] → [Press]



4 Adjust the sound elements of the selected tone.



[Turn] → [Press]

- 1 Adjust the frequency.
- 2 Adjust the level.
- 3 Adjust the Q-slope.

Sound elements	Range/selectable items		
	BASS	MIDDLE	TREBLE
Frequency	60 Hz	0.5 kHz	10.0 kHz
	80 Hz	1.0 kHz	12.5 kHz
	100 Hz	1.5 kHz	15.0 kHz
	200 Hz	2.5 kHz	17.5 kHz
Level	-06 to +06	-06 to +06	-06 to +06
Q	Q1.0	Q0.75	Fixed
	Q1.25	Q1.0	
	Q1.5	Q1.25	
	Q2.0		

5 Repeat steps 3 and 4 to adjust other sound characteristics.

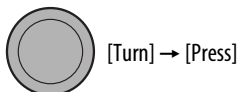
The adjustment made will be stored automatically.

Menu operations

1 Call up the menu.



2 Select the desired item.



3 Repeat step 2 if necessary.

- To return to the previous menu, press BACK.
- To exit from the menu, press DISP or MENU.

Initial: **Underlined**

Category	Menu items	Selectable settings, [reference page]
DEMO	DEMO Display demonstration	<ul style="list-style-type: none"> • DEMO ON : Display demonstration will be activated automatically if no operation is done for about 20 seconds, [6]. • DEMO OFF : Cancels.
	CLOCK DISP *1 Clock display	<ul style="list-style-type: none"> • CLOCK ON : Clock time is shown on the display at all times when the power is turned off. • CLOCK OFF : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [6].
CLOCK	CLOCK SET Clock setting	: Adjust the hour, then the minute, [6]. (Initial: 0:00)
	24H/12H Time display mode	<ul style="list-style-type: none"> • 24 HOUR : See also page 6 for setting. • 12 HOUR
	CLOCK ADJ *2 Clock adjustment	<ul style="list-style-type: none"> • AUTO : The built-in clock is automatically adjusted using the CT (clock time) data in the Radio Data System signal. • OFF : Cancels.
EQ	EQ Equalizer	: Select a preset sound mode suitable to the music genre. USER, ROCK, CLASSIC, POPS, HIP HOP, JAZZ
DISPLAY	DIMMER Dimmer	<ul style="list-style-type: none"> • DIMMER ON : Dims the display and button illumination. • DIMMER OFF : Cancels.
	SCROLL *3 Scroll	<ul style="list-style-type: none"> • SCROLL ONCE : Scrolls the displayed information once. • SCROLL AUTO : Repeats scrolling (at 5-second intervals). • SCROLL OFF : Cancels. <p>Pressing DISP for more than one second can scroll the display regardless of the setting.</p>
	TAG DISPLAY Tag display	<ul style="list-style-type: none"> • TAG ON : Shows the Tag information while playing MP3/WMA tracks. • TAG OFF : Cancels.

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" to save the car's battery.

*2 Takes effect only when CT data is received.

*3 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

Continued on the next page

Category	Menu items	Selectable settings, [reference page]
TUNER	AF-REG * ⁴ Alternative frequency/ regionalization reception	<ul style="list-style-type: none"> • AF ON : When the currently received signals become weak, the unit switches to another station (the programme may differ from the one currently received), [9]. <ul style="list-style-type: none"> • The AF indicator lights up. • AF-REG ON : When the currently received signals become weak, the unit switches to another station broadcasting the same programme. <ul style="list-style-type: none"> • The AF and REG indicators light up. • OFF : Cancels.
	PTY-STANDBY * ⁴ PTY standby	PTY OFF, PTY codes : Activates PTY Standby Reception with one of the PTY codes, [9].
	TA VOLUME * ⁴ Traffic announcement volume	VOLUME 00 – VOLUME 50 (or VOLUME 00 – VOLUME 30) * ⁵ : (Initial: VOLUME 15)
	P-SEARCH * ⁴ Programme search	<ul style="list-style-type: none"> • SEARCH ON : Activates Programme Search, [9]. • SEARCH OFF : Cancels.
	MONO * ⁶ Monaural mode	<ul style="list-style-type: none"> • MONO ON : Activate monaural mode to improve FM reception, but stereo effect will be lost, [7]. • MONO OFF : Restore the stereo effect.
	IF BAND Intermediate frequency band	<ul style="list-style-type: none"> • AUTO : Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) • WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
AUDIO	FADER * ⁷ , * ⁸ Fader	R06 – F06 : Adjust the front and rear speaker output balance. (Initial: 00)
	BALANCE * ⁸ Balance	L06 – R06 : Adjust the left and right speaker output balance. (Initial: 00)
	LOUD Loudness	<ul style="list-style-type: none"> • LOUD OFF : Cancels. • LOUD ON : Boost low and high frequencies to produce a well-balanced sound at a low volume level.

*⁴ Only for FM Radio Data System stations.

*⁵ Depends on the amplifier gain control.

*⁶ Displayed only when the source is "FM."

*⁷ If you are using a two-speaker system, set the fader level to "00."

*⁸ This adjustment will not affect the subwoofer output.

Category	Menu items	Selectable settings, [reference page]
AUDIO	VOL ADJUST Volume adjust	VOL ADJ –05 — : Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. VOL ADJ +05 (Initial: VOL ADJ 00) • Before making an adjustment, select the source you want to adjust. • “VOL ADJ FIX” appears on the display if “FM” is selected as the source.
	L/O MODE Line output mode	• SUB.W : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier). • REAR : Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	SUB.W FREQ * ⁹ Subwoofer cutoff frequency	• LOW : Frequencies lower than 72 Hz are sent to the subwoofer. • MID : Frequencies lower than 111 Hz are sent to the subwoofer. • HIGH : Frequencies lower than 157 Hz are sent to the subwoofer.
	SUB.W LEVEL * ⁹ Subwoofer level	SUB.W 00 — SUB.W 08 : Adjust the subwoofer output level. (Initial: SUB.W 04)
	BEEP Keypress tone	• BEEP OFF : Deactivates the keypress tone. • BEEP ON : Activates the keypress tone.
	TEL MUTING Telephone muting	• MUTING 1/ MUTING 2 : Select either one which mutes the sounds while using a cellular phone. • MUTING OFF : Cancels.
	AMP GAIN * ¹⁰ Amplifier gain control	• LOW POWER : VOLUME 00 – VOLUME 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.) • HIGH POWER : VOLUME 00 – VOLUME 50
SRC SELECT	AM * ¹¹ AM station	• AM OFF : Disable “AM” in source selection. • AM ON : Enable “AM” in source selection, [4].
	AUX IN * ¹² Auxiliary input	• AUX OFF : Disable “AUX IN” in source selection. • AUX ON : Enable “AUX IN” in source selection, [4].

*⁹ Displayed only when “L/O MODE” is set to “SUB.W.”

*¹⁰ The volume level automatically changes to “VOLUME 30” if you change to “LOW POWER” with the volume level set higher than “VOLUME 30.”

*¹¹ Displayed only when any source other than “AM” is selected.

*¹² Displayed only when any source other than “AUX IN” is selected.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops. Next time you select "CD" as the playback source, playback will start from where it had been stopped previously.
- If no operation is done for about 30 seconds after pressing MENU button, the operation will be canceled.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and the stations are stored anew.
 - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

FM Radio Data System operations


- Network-Tracking Reception requires two types of Radio Data System signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate correctly.
- If a Traffic Announcement is received by TA Standby Reception, the volume level automatically changes to the preset level (TA VOL) if the current level is lower than the preset level.
- When Alternative Frequency Reception is activated (with AF selected), Network-Tracking Reception is also activated automatically.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3/WMA formats.
- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press  to eject the disc.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation has occurred on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - The files on the CD-R/CD-RW are written using the “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.

- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows extension.
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 64 characters
 - Joliet: up to 32 characters
 - Windows extension: up to 32 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
 - MP3 files encoded in MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have data such as AIFF, ATRAC3, etc.
- The search function works but search speed is not constant.

Continued on the next page

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "CANNOT PLAY" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
 - Folder names : 32 characters
 - File names : 32 characters
 - MP3 Tag : 32 characters
 - WMA Tag : 32 characters
- This unit can recognize a total of 5 000 files, 255 folders (255 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.

- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files not based on Windows Media® Audio.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

Menu operations

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "AUX IN" cannot be selected.	Check the "SRC SELECT" → "AUX IN" setting (see page 17).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
	• "AM" cannot be selected.	Check the "SRC SELECT" → "AM" setting (see page 17).
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• "PLEASE" and "EJECT" appear alternately on the display.	Press ▲, then insert a disc correctly.
	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

Continued on the next page

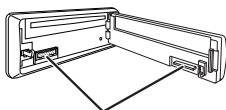
	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> A longer readout time is required ("READING" keeps flashing on the display). 	Do not use too many hierarchical levels and folders.
	<ul style="list-style-type: none"> Tracks do not play back in the order you have intended them to play. 	The playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> The elapsed playing time is not correct. 	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> The correct characters are not displayed (e.g. album name). 	This unit can only display Roman alphabets (upper case), Cyrillic alphabets (upper case), numbers, and a limited number of symbols (see page 2).
USB device playback	<ul style="list-style-type: none"> Noise is generated. 	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> "READING" keeps flashing on the display. 	<ul style="list-style-type: none"> Readout time varies depending on the USB device. Do not use too many hierarchy or folders. Turn off the power then on again. Reattach the USB device again.
	<ul style="list-style-type: none"> "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> Tracks/folders are not played back in the order you have intended. 	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	<ul style="list-style-type: none"> "CANNOT PLAY" flashes on the display. "NO USB" appears on the display. The unit cannot detect the USB device. 	<ul style="list-style-type: none"> Attach a USB device that contains tracks encoded in an appropriate format. Reattach the USB device again.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display Roman alphabets (upper case), Cyrillic alphabets (upper case), numbers, and a limited number of symbols (see page 2).
	<ul style="list-style-type: none"> While playing a track, sound is sometimes interrupted. 	<p>The MP3/WMA tracks have not been properly copied into the USB device.</p> <p>Copy MP3/WMA tracks again into the USB device, and try again.</p>

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Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:	Front/Rear:	50 W per channel
Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	Bass:	± 12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle:	± 12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble:	± 12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response:		40 Hz to 20 000 Hz
Signal-to-Noise Ratio:		70 dB
Line-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Output Impedance:		1 k Ω
Subwoofer-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Other Terminal:		USB input jack, AUX (auxiliary) input jack

TUNER SECTION

Frequency Range:	FM:	87.5 MHz to 108.0 MHz
	FM-L0:	65.00 MHz to 74.00 MHz
	AM:	MW: 522 kHz to 1 620 kHz LW: 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity:	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity:	16.3 dBf (1.8 μ V/75 Ω)
	Alternate Channel Selectivity (400 kHz):	65 dB
	Frequency Response:	40 Hz to 15 000 Hz
	Stereo Separation:	30 dB
MW Tuner	Sensitivity:	20 μ V
	Selectivity:	35 dB
LW Tuner	Sensitivity:	50 μ V

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	93 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate: 320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Compatible Device:	Mass storage class
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	DC 5 V --- 500 mA

GENERAL		
Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:		Negative ground
Allowable Operating Temperature:		0°C to +40°C
Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 160 mm
	Panel Size:	188 mm × 58 mm × 12 mm
Mass:		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Затруднения при эксплуатации?

Пожалуйста, перезагрузите Ваше устройство

Для получения информации о перезагрузке Вашего устройства
обратитесь на соответствующую страницу

Маєте ПРОБЛЕМУ з функціонуванням?

Повторно налаштуйте систему

Див. сторінку “Як повторно налаштувати пристрій”

JVC

Віктор Компані оф Джепен Лімітед

12, 3-чоме, Моріія-чо, Канагава-ку, Йокогама, Канагава 221-8520, Японія



EN, RU, UK

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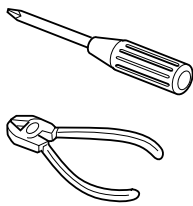
1008DTSMDTJEIN



KD-R407

Installation/Connection Manual Руководство по установке/подключению Керівництво зі встановлення та з'єднання

GET0575-002A
[EE]



1008DTSMDTJEIN
EN, RU, UK

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ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

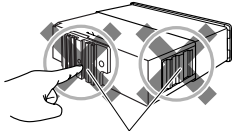
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 17 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink / Радиатор / Радіатор

РУССКИЙ

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе**. Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера автомобильного специалиста JVC.

ПРЕДУПРЕЖДЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства.

- **После установки обязательно заземлите данное устройство на шасси автомобиля.**

Примечания:

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру автомобильного специалиста JVC.
- Рекомендуется подключать динамики с максимальной мощностью более 50 Вт (к задней и передней панели устройства, с полным сопротивлением от **4 Ω до 8 Ω**). Если максимальная мощность динамиков менее 50 Вт, перейдите в режим "AMP GAIN", чтобы предотвратить их повреждение (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 17).
- Для предотвращения коротких замыканий обмотайте терминалы НЕИСПОЛЬЗУЕМЫХ проводов изоляционной лентой.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

УКРАЇНА

Цей пристрій призначений для роботи під напругою **12 В постійного струму; з електричними системами, що мають заземлення ВІД'ЄМНОГО полюсу**. Якщо ваше авто не оснащено такою системою, потрібно використовувати інвертор напруги, який можна придбати у дилерів устаткування JVC для автомобілів.

ПОПЕРЕДЖЕННЯ

Для запобігання коротким замиканням рекомендується перед встановленням пристрою відключити від'ємну клему акумулятора та виконати усі електричні з'єднання.

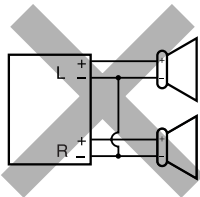
- **Переконайтеся у тому, що після закінчення встановлення пристрою, виконано його заземлення на шасі авто.**

Примітки:

- Замінити запобіжник можна тільки запобіжником із вказаними у специфікації номінальними характеристиками. Якщо запобіжники часто виходять з ладу, проконсультуйтеся з дилером устаткування JVC для автомобілів.
- Рекомендується підключати гучномовці з максимальною потужністю, що перевищує 50 Вт (як для розташованих спереду, так і для тих, що розміщуються позаду. Рекомендований діапазон опору: від 4 до 8 Ом). У разі, якщо потужність є меншою чим 50 Вт, змініть налаштування "AMP GAIN" (коефіцієнт підсилення) задля запобігання пошкодженню гучномовців (див. стор. 17 "ІНСТРУКЦІЇ").
- Для запобігання коротким замиканням, заізолюйте клеми провідника, ЩО НЕ ВИКОРИСТОВУЄТЬСЯ, ізоляційною стрічкою.
- По закінченні роботи радіатор стає надто гарячим. Будьте обережні, не торкайтесь його при видаленні цього пристрою.

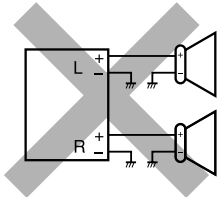
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



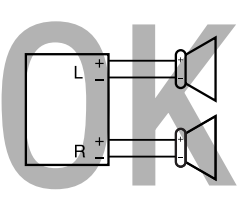
ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:

- **НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.**
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.



ЗАСТЕРЕЖЕННЯ щодо приєднання джерела живлення та гучномовців:

- **НЕ з'єднуйте провідники живлення гучномовців з акумулятором. Невиконання такої вимоги призведе до тяжкого ушкодження пристрою.**
- ПЕРЕД тим, як з'єднати провідники живлення з гучномовцями, перевірте схему з'єднання гучномовців вашого авто.



Parts list for installation and connection

The following parts are provided for this unit.
If any item is missing, consult your JVC IN-CAR ENTERTAINMENT dealer immediately.

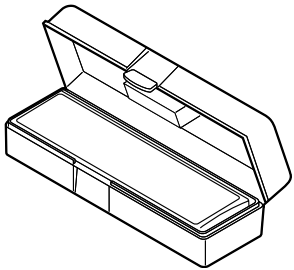
Список деталей для установки и подключения

Следующие детали поставлены в комплекте с устройством.
При отсутствии какого-либо элемента немедленно свяжитесь с дилером автомобильного специалиста JVC.

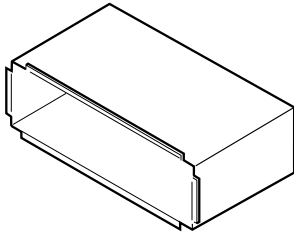
Перелік деталей для встановлення та з'єднання

У комплекті з цим пристроєм надаються такі деталі.
Якщо будь-яка з цих деталей відсутня, негайно зверніться до дилера устаткування JVC для автомобілів.

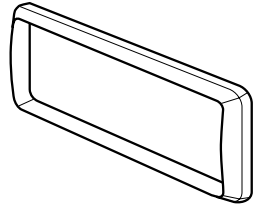
(A) / (B)
Hard case/Control panel
Жесткий футляр/панель управления
Жорсткий футляр/Панель управління



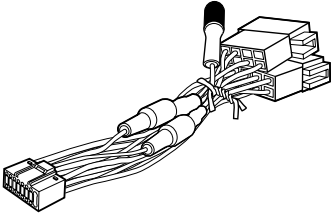
(C)
Sleeve
Муфта
Екран



(D)
Trim plate
Декоративную панель
Знімна пластина



(E)
Power cord
Кабель питания
Шнур живлення



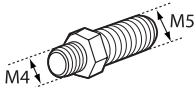
(F)
Washer (ø5)
Шайба (н5)
Шайба (ø5)



(G)
Lock nut (M5)
Фиксирующая гайка (M5)
Стопорная гайка (M5)



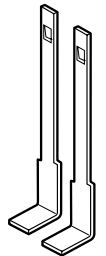
(H)
Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)
Крепежный болт (M4 × 5 мм; M5 × 12.5 мм)
Монтажный болт (M4 × 5 мм; M5 × 12.5 мм)



(I)
Rubber cushion
Резиновый чехол
Гумова прокладка



(J)
Handles
Рычаги
Ручки



INSTALLATION
(IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

На следующих иллюстрациях показана типовая установка. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру автомобильного специалиста JVC или в компанию, поставляющую соответствующие принадлежности.

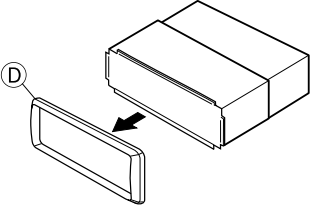
- Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.

ВСТАНОВЛЕННЯ (МОНТАЖ НА ПРИЛАДОВУ ПАНЕЛЬ)

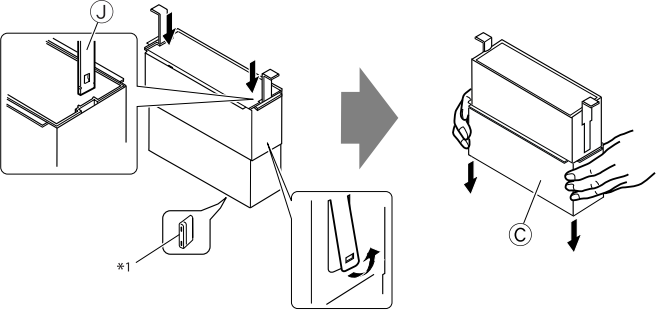
Наведена нижче ілюстрація демонструє типовий процес встановлення. У разі будь яких запитань або потреби у інформації щодо набору інструментів та спорядження, проконсультуйтеся з дилером устаткування JVC для автомобілів або з компанією, що постачає набір інструментів та спорядження.

- Якщо ви не впевнені щодо правильності встановлення цього пристрою, залучіть до його встановлення кваліфікованого спеціаліста.

1

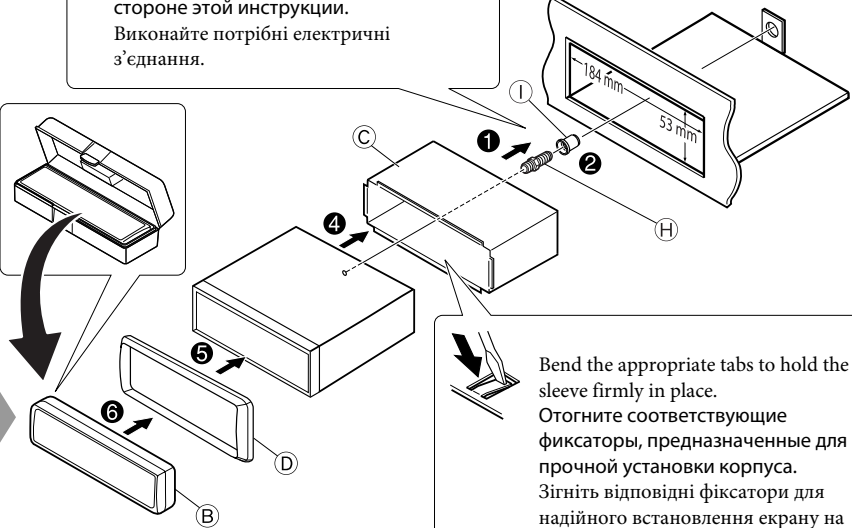


2



3

③ Do the required electrical connections. Выполните необходимые подключения контактов, как показано на обратной стороне этой инструкции. Виконайте потрібні електричні з'єднання.



Bend the appropriate tabs to hold the sleeve firmly in place. Отогните соответствующие фиксаторы, предназначенные для прочной установки корпуса. Зігніть відповідні фіксатори для надійного встановлення екрану на його місці.

Removing the unit

Before removing the unit, release the rear section.

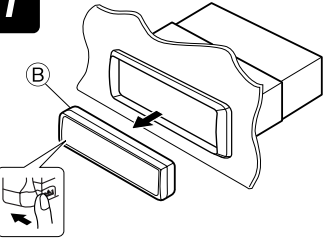
Удаление устройства

Перед удалением устройства освободите заднюю часть.

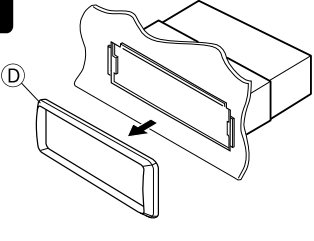
Видалення пристрою

Перед видаленням пристрою, ослабте кріплення тильної частини.

1

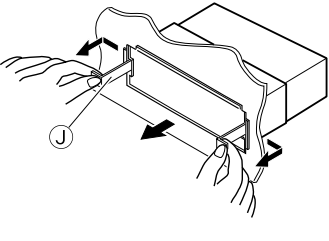


2

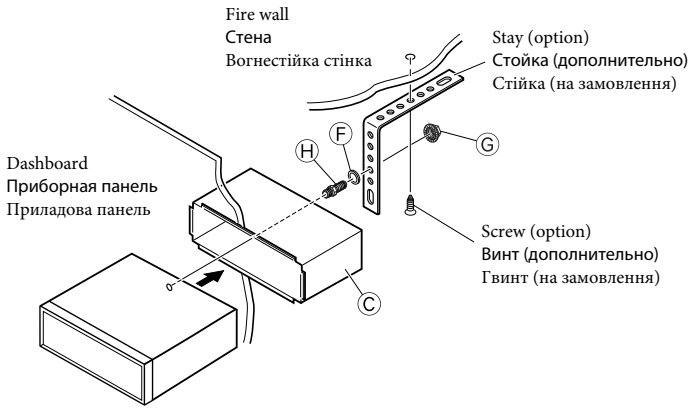


3

Insert the two handles, then pull them as illustrated so that the unit can be removed. Вставьте два рычажка, затем потяните их, как показано на рисунке, чтобы вынуть устройство. Вставте дві ручки, а потім потягніть їх на себе згідно з ілюстрацією, щоби витягти пристрій.



When using the optional stay / При использовании дополнительной стойки / Використання додаткової стійки (постачається за окремим замовленням)

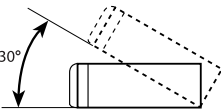


Fire wall
Стена
Вогнестійка стінка

Stay (option)
Стойка (дополнительно)
Стойка (на замовлення)

Dashboard
Приборная панель
Приладова панель

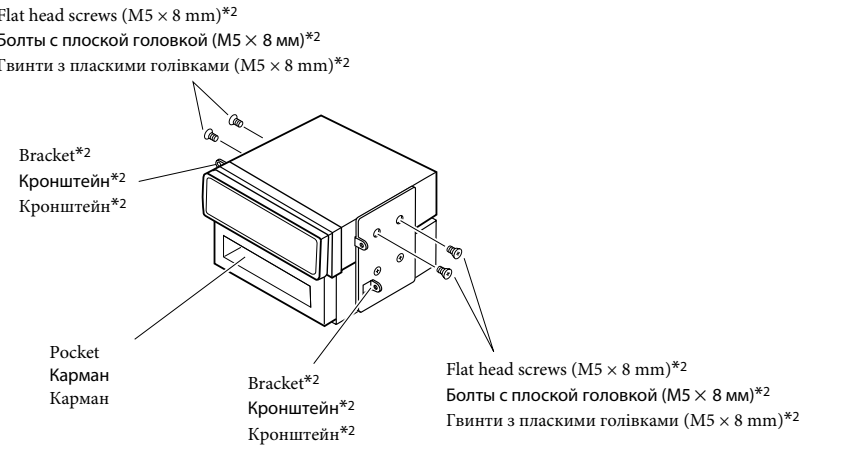
Screw (option)
Винт (дополнительно)
Гвинт (на замовлення)



Install the unit at an angle of less than 30°. Установите устройство под углом менее 30°. Встановіть пристрій під кутом меншим, ніж 30°.

When installing the unit without using the sleeve / При установке устройства без использования муфты / Встановлення пристрою без екрану

In a Toyota car for example, first remove the car radio and install the unit in its place. В автомобиле Тойота, например, сначала извлеките автомобильный радиоприемник и установите устройство на место. У таких авто, як, наприклад, "Тойота", спершу зніміть радіоприймач, а на його місце встановіть пристрій.



Flat head screws (M5 × 8 mm)*2
Болты с плоской головкой (M5 × 8 мм)*2
Гвинты с плоскими головками (M5 × 8 мм)*2

Bracket*2
Кронштейн*2
Кронштейн*2

Pocket
Карман
Карман

Flat head screws (M5 × 8 mm)*2
Болты с плоской головкой (M5 × 8 мм)*2
Гвинты с плоскими головками (M5 × 8 мм)*2

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

Примечание : При установке устройства на крепежный кронштейн, используйте только винты длиной 8 мм. При использовании более длинных винтов можно повредить устройство.

Примітка : Встановлюючи пристрій на монтажні кронштейни, переконайтеся, що застосовуються гвинти довжиною 8 мм. Якщо гвинти довші, вони можуть пошкодити пристрій.

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Not supplied for this unit.

*1 Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.
*2 Не входят в комплект.

*1 При встановленні пристрою, будьте обережні, не пошкодьте запобіжник, розташований у тильній частині.
*2 Не входит до комплекта постачання цього пристрою.

C

Connecting the external amplifier or subwoofer / Подключение внешнего усилителя или низкочастотного динамика / Приєднання зовнішнього підсилювача або низькочастотного динаміка

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

Можно подключить усилители для обновления автомобильной стереосистемы.

- Подсоедините провод внешнего устройства (синий с белой полосой) к проводу внешнего устройства другого оборудования так, чтобы им можно было управлять с этого устройства.
- **Отсоедините громкоговорители от данного устройства, подключите их к усилителю. Оставьте провода громкоговорителей данного устройства неиспользованными.**

Для покращення характеристик стереосистеми, до неї можна підключити підсилювач.

- Підключіть провідник зовнішнього пристрою (синій з білою смужкою) до провідника зовнішнього пристрою іншого обладнання. Таким чином, ним можна буде керувати з цього пристрою.
- **Відключіть гучномовці від цього пристрою, приєднайте їх до підсилювача. Залиште провідники гучномовців такими, що не використовуються.**

Remote lead
Провод внешнего устройства
Провідник зовнішнього пристрою

Y-connector (not supplied for this unit)
Разъем Y (не входит в комплект поставки)
Y-рознімання (двійник) (не входит до комплекту постачання даного пристрою)

Remote lead (blue with white stripe)
Провод внешнего устройства (синий с белой полосой)
Провідник зовнішнього пристрою (синій із білою смужкою)

To the remote lead of other equipment or power aerial if any
К удаленному проводу другого оборудования или антенны
На провідник зовнішнього пристрою іншого обладнання або на антену (якщо встановлена)

Signal cord (not supplied for this unit)
Кабель сигнала (не входит в комплект поставки)
Сигнальний шнур (не входит до комплекту постачання даного пристрою)

Set "L/O MODE" to "REAR" (See page 17 of the INSTRUCTIONS.)
Для настройки "L/O MODE" установите значение "REAR" (см. ИНСТРУКЦИИ ПО ЭКСПЛУАТАЦИИ на стр. 17.)
У налаштуваннях режиму лінійного виходу (L/O MODE) задати REAR (задні колонки) - (див. стор. 17 цієї ІНСТРУКЦІЇ).

Set "L/O MODE" to "SUB.W" (See page 17 of the INSTRUCTIONS.)
Для настройки "L/O MODE" установите значение "SUB.W" (см. стр. 17 ИНСТРУКЦИИ).
У налаштуваннях режиму лінійного виходу (L/O MODE) задати SUB.W (низькочастотний динамік) - (див. стор. 17 цієї ІНСТРУКЦІЇ).

Rear speakers
Задние громкоговорители
Задні гучномовці

JVC Amplifier
JVC-усилитель
Підсилювач JVC

Subwoofer
Низкочастотный динамик
Низькочастотний динамік

JVC Amplifier
JVC-усилитель
Підсилювач JVC

LINE OUT
L
R
REAR

KD-R407

Rear speakers
Задние громкоговорители
Задні гучномовці

Front speakers (see diagram B)
Передние громкоговорители (см. схему B)
Передні гучномовці (див. схему B)

ог
или
або

*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

*4 Cut the rear speaker leads of the car's ISO connector and connect them to the amplifier.

*3 Плотно прикрепите заземляющий провод к металлическому кузову или шасси автомобиля—в месте, не покрытом краской (если оно покрыто краской, удалите краску перед тем, как прикреплять провод). Невыполнение этого требования может привести к повреждению данного устройства.

*4 Обрежьте выводы задних динамиков для разъема ISO автомобиля и подсоедините их к усилителю.

*3 Надійно прикрутіть провідник заземлення до металічного корпусу або до шасі авто у місці, яке не має фарбового покриття (якщо воно є, видаліть фарбу до підключення провідника). Невиконання цієї вимоги може призвести до пошкодження пристрою.

*4 Відключіть провідники задніх гучномовців від рознімання ISO, що належить до авто, та з'єднайте їх із підсилювачем.

TROUBLESHOOTING

- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the “–” terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?
- **This unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the “–” terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?

ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

- **Сработал предохранитель.**
 - * Правильно ли подключены черный и красный провода?
- **Питание не включается.**
 - * Подключен ли желтый провод?
- **Звук не выводится через громкоговорители.**
 - * Нет ли короткого замыкания на кабеле выхода громкоговорителей?
- **Звук искажен.**
 - * Заземлен ли провод выхода громкоговорителей?
 - * Заземлены ли разъемы “–” правого (R) и левого (L) громкоговорителей?
- **Шум мешает звучанию.**
 - * Соединен ли находящийся сзади зажим заземления с шасси автомобиля с помощью более короткого и тонкого шнуров?
- **Устройство нагревается.**
 - * Заземлен ли провод выхода громкоговорителей?
 - * Заземлены ли разъемы “–” правого (R) и левого (L) громкоговорителей?
- **Приемник не работает.**
 - * Выполнена ли перенастройка приемника?

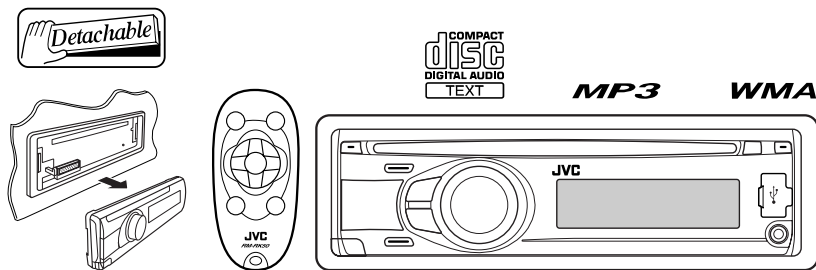
НЕСПРАВНОСТІ

- **Вийшов з ладу запобіжник.**
 - * Чи правильно приєднані червоний та чорний провідники?
- **Не можна включити живлення.**
 - * Чи приєднаний жовтий провідник?
- **Звук з гучномовців відсутній.**
 - * Чи не замкнуто “на коротко” вихідні провідники гучномовця?
- **Звук спотворений.**
 - * Чи не заземлені вихідні провідники гучномовця?
 - * Чи заземлені разом провідники “–” лівого та правого гучномовця?
- **Звук чути з перешкодами.**
 - * Чи приєднано тильну клему заземлення до шасі авто за допомогою коротших та товстіших шнурів?
- **Пристрій нагрівається.**
 - * Чи не заземлені вихідні провідники гучномовця?
 - * Чи заземлені разом провідники “–” лівого та правого гучномовця?
- **Цей пристрій не працює взагалі.**
 - * Чи ви переналаштовували пристрій?



CD RECEIVER

KD-R504



For canceling the display demonstration, see page 7.

For installation and connections, refer to the separate manual.

INSTRUCTIONS

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	WARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICA. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学機器で直接 見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FOA 21 CFR (ENG)



[European Union only]

For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

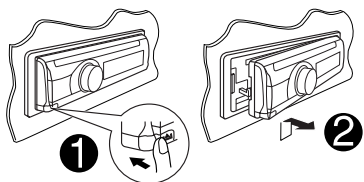
Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

This mark is used to indicate...

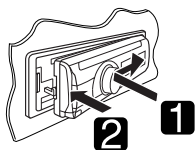


Turn the control dial to make a selection, then press to confirm the selection.

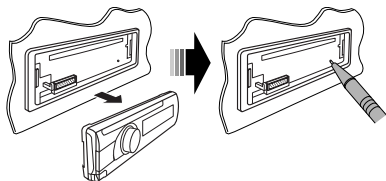
■ Detaching the control panel



■ Attaching the control panel

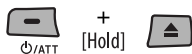


■ How to reset your unit



- Your preset adjustments will also be erased.

■ How to forcibly eject a disc



- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, see page 9.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

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How to forcibly eject a disc.....	3

OPERATIONS

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SETTINGS

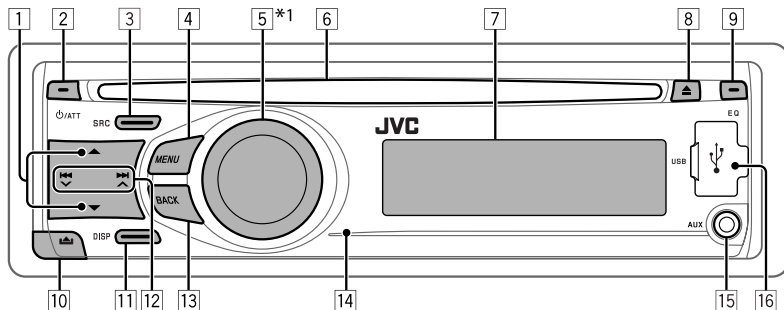
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Basic operations

Using the control panel



- 1 • **FM/AM**: Select preset station.
• **CD/USB**: Select folder.
- 2 • Turn on the power.
• Attenuate the sound (if the power is on).
• Turn off the power [Hold].
- 3 Select the source.
FM → AM^{*2} → **CD**^{*3} → **USB** → **AUX IN**^{*2} →
(back to the beginning)
- 4 • Enter list operations.
• Enter Menu setting [Hold].
- 5 • Control the volume^{*4} or select items [Turn].
• Confirm the selection [Press].
• **FM**: Enter SSM preset mode [Hold].
• **CD/USB**: Enter playback mode [Hold].
Pause/resume playback^{*4} [Press].
- 6 Loading slot
- 7 Display window
- 8 Eject disc.
- 9 Select the sound mode.

- 10 Detach the panel.
- 11 Change the display information.
- 12 • **FM/AM**: Search for station.
• **CD/USB**: Select track.
- 13 Return to the previous menu.
- 14 Remote sensor
- 15 AUX (auxiliary) input jack
- 16 USB (Universal Serial Bus) input jack

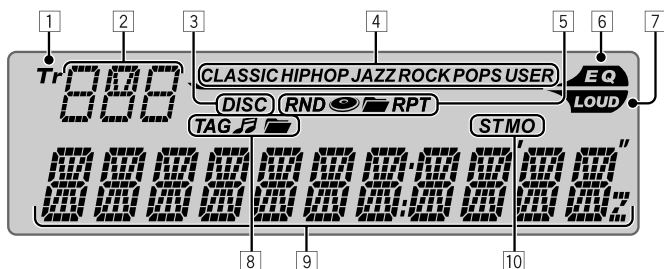
^{*1} Also known as "Control dial" in this manual.





^{*2} You cannot select these sources if they were disabled in the Menu (see "SRC SELECT" in "Menu operations" on page 16).

^{*3} You cannot select "CD" as the playback source if no disc is in the unit.

^{*4} You can still adjust the volume during pause when the selected source is CD/USB.
Before resume playback, check to be sure that you have not raise the volume level too much.

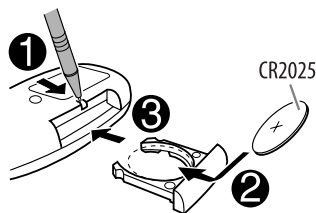
Display window



- | | |
|--|--|
| <ul style="list-style-type: none"> 1 Tr (track) indicator 2 Source display / Track number / Folder number / Time countdown indicator 3 DISC indicator 4 Sound mode indicators—CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER 5 Playback mode / item indicators—RND (random),  (disc),  (folder), RPT (repeat) | <ul style="list-style-type: none"> 6 EQ (equalizer) indicator 7 LOUD (loudness) indicator 8 Disc information indicators—TAG (Tag information),  (track/file),  (folder) 9 Main display 10 Tuner reception indicators—ST (stereo), MO (monaural) |
|--|--|

Using the remote controller (RM-RK50)

Installing the lithium coin battery (CR2025)



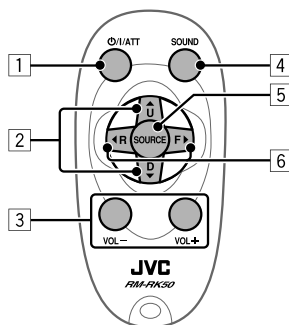
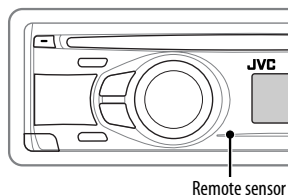
Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

If the effectiveness of the remote controller decreases, replace the battery.

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).



1. Turns the power on if pressed briefly or attenuates the sound when the power is on.
 - Turns the power off if pressed and held.
2. Changes the preset stations.
 - Changes the folder of the MP3/WMA.
3. Adjusts the volume level.
4. Selects the sound mode.
5. Selects the source.
6. Searches for stations if pressed briefly.
 - Fast-forwards or reverses the track if pressed and held.
 - Changes the tracks if pressed briefly.




Warning (to prevent accidents and damage):

- Do not install any battery other than CR2025 or its equivalent.
- Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time.
- Store the battery in a place where children cannot reach.
- Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
- Do not leave the battery with other metallic materials.
- Do not poke the battery with tweezers or similar tools.
- Wrap the battery with tape and insulate when throwing away or saving it.

Preparation

■ Canceling the display demonstration and setting the clock

- See also page 14.

1	 ⏻/ATT	Turn on the power.
2	 [Hold] Press and hold until the main menu is called up.  [Turn] → [Press] <ul style="list-style-type: none">• Repeat this procedure.	Cancel the display demonstrations Select "DEMO," then "DEMO OFF." Set the clock Select "CLOCK" → "CLOCK SET." Adjust the hour, then press control dial once to proceed to adjust the minute. <ul style="list-style-type: none">• To return to the previous menu, press BACK.

Changing the display information

DISP 

When the power is turned off: The current clock time is displayed if "CLOCK DISP" is set to "CLOCK OFF," (see page 14).

When the power is turned on: The display information of the current source changes as follows:



FM/AM	Frequency → Clock → Station name* ¹ → (back to the beginning)
CD	Audio CD/CD Text: Disc title/performer* ² → Track title* ² → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)
CD/USB	MP3/WMA: Album name/performer (folder name)* ³ → Track title (file name)* ³ → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)

*¹ If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 13.

*² If the current disc is an audio CD, "NO NAME" appears.

*³ If an MP3/WMA file does not have Tag information or "TAG DISPLAY" is set to "TAG OFF" (see page 14), folder name and file name appear.

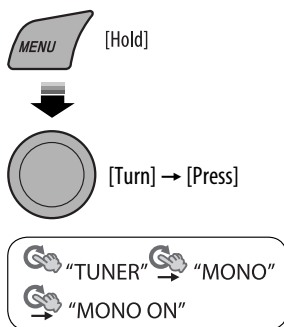
Listening to the radio

1	SRC 	Select “FM” or “AM.”
2		Search for a station to listen—Auto Search. When a station is tuned in, searching stops. To stop searching, press the same button again. <ul style="list-style-type: none"> • You can also search for a station manually—Manual Search. Hold either one of the buttons until “M” flashes on the display, then press it repeatedly. • When receiving an FM stereo broadcast with sufficient signal strength, the ST indicator lights up on the display.

Improving the FM reception

When an FM stereo broadcast is hard to receive, activate monaural mode for better reception.

- See also page 14.



Reception improves, but stereo effect will be lost.

- The MO indicator lights up on the display.

To restore the stereo effect, repeat the same procedure to select “MONO OFF.” The MO indicator goes off.

Storing stations in memory

Automatic presetting (FM)—SSM (Strong-station Sequential Memory)

You can preset up to 18 stations for FM.

1 While listening to a station...



2 Select the preset number range you want to store.




SSM 01–06 ↔ SSM 07–12 ↔ SSM 13–18

3



Local FM stations with the strongest signals are searched and stored automatically.

- **To stop searching**, press .

To preset other 6 stations, repeat from step 1 again.

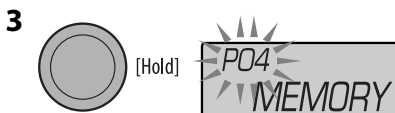
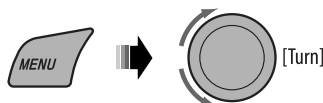
Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

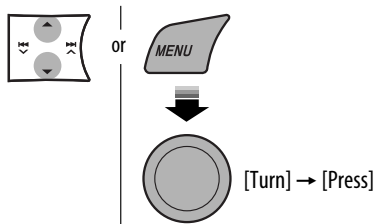
Ex.: Storing FM station of 92.50 MHz into preset number "04."




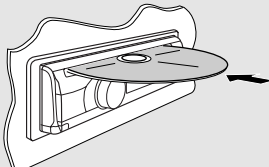
2 Select preset number "04."



Selecting preset station



Disc operations

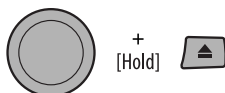
1		Turn on the power.
2		Insert a disc. All tracks will be played repeatedly until you change the source or eject the disc.

Stop playing and ejecting the disc



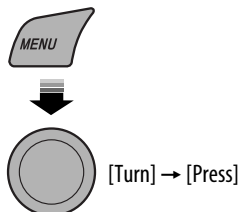
- "NO DISC" appears. Press SRC to listen to another playback source.

Prohibiting disc ejection



To cancel the prohibition, repeat the same procedure.




Selecting a track/folder



- For MP3/WMA discs, select the desired folder, then the desired track by repeating the control dial procedures.
- To return to the previous menu, press BACK.

Continued on the next page

Pressing (or holding) the following buttons allows you to...

	[Press] Pause/resume playback.
	MP3/WMA: Select folder
	[Press] Select track [Hold] Reverse/fast-forward track

■ Selecting the playback modes

You can use only one of the following playback modes at a time.

1



[Hold]

2



[Turn] → [Press]

REPEAT ↔ RANDOM

3



[Turn] → [Press]

REPEAT

TRACK RPT : Repeats current track

FOLDER RPT : MP3/WMA: Repeats current folder

RANDOM

FOLDER RND : MP3/WMA: Randomly plays all tracks of current folder, then tracks of next folders

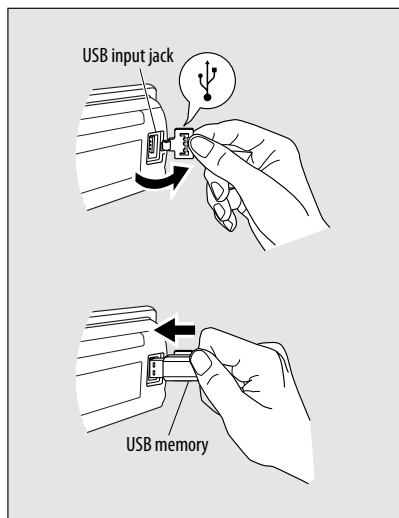
ALL RND : Randomly plays all tracks

- To cancel repeat play or random play, select **"RPT OFF"** or **"RND OFF."**
- To return to the previous menu, press **BACK**.

Listening to the USB device

This unit can play MP3/WMA tracks stored in a USB device.

All tracks will be played repeatedly until you change the source or detach the USB device.



If a USB device has been attached...

SRC 

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.

- Press SRC to listen to another playback source.

You can operate the USB device in the same way you operate the files on a disc. (See pages 9 and 10.)

Cautions:


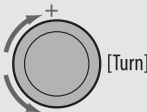
- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out and attach the USB device repeatedly while “READING” is shown on the display.
- Do not start the car engine if a USB device is connected.

- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see page 18.

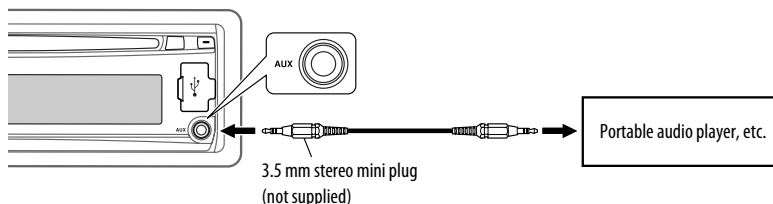
Listening to the other external components

You can connect an external component to AUX (auxiliary) input jack on the control panel.

Preparation: Make sure “AUX ON” is selected in the “SRC SELECT” → “AUX IN” setting, see page 16.

1		Select “AUX IN.”
2	—	Turn on the connected component and start playing the source.
3		Adjust the volume.
4	—	Adjust the sound as you want (see pages 12 and 13).

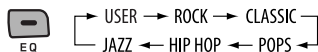
Connecting an external component to the AUX input jack



Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre.

- See also page 14.



or

Selecting from Menu.



[Hold]



[Turn] → [Press]



"EQ"



"USER/ROCK/CLASSIC
/POPS/HIP HOP/JAZZ"

- See below and page 13 for "USER" settings.

Preset value setting for each sound mode

Sound mode	Preset value									LOUD (loudness)
	BASS			MIDDLE			TREBLE			
	Freq.	Level	Q	Freq.	Level	Q	Freq.	Level	Q	
USER	60 Hz	00	Q1.25	1.0 kHz	00	Q1.0	10.0 kHz	00	—	OFF
ROCK	100 Hz	+03	Q1.0	1.0 kHz	00	Q1.25	10.0 kHz	+02	—	
CLASSIC	80 Hz	+01	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	
POPS	100 Hz	+02	Q1.25	1.0 kHz	+01	Q1.25	10.0 kHz	+02	—	
HIP HOP	60 Hz	+04	Q1.0	1.0 kHz	−02	Q1.0	10.0 kHz	+01	—	
JAZZ	80 Hz	+03	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	

Freq.: Frequency Q: Q-slope

Storing your own sound mode

You can store your own adjustments in memory.

1 Select "USER" for "EQ."



[Hold]



[Turn] → [Press]



"EQ"



"USER"

2 While "USER" is shown on the display...



[Hold]

3 Select a tone.



[Turn] → [Press]



4 Adjust the sound elements of the selected tone.



[Turn] → [Press]

- 1 Adjust the frequency.
- 2 Adjust the level.
- 3 Adjust the Q-slope.

Sound elements	Range/selectable items		
	BASS	MIDDLE	TREBLE
Frequency	60 Hz	0.5 kHz	10.0 kHz
	80 Hz	1.0 kHz	12.5 kHz
	100 Hz	1.5 kHz	15.0 kHz
	200 Hz	2.5 kHz	17.5 kHz
Level	-06 to +06	-06 to +06	-06 to +06
Q	Q1.0 Q1.25 Q1.5 Q2.0	Q0.75 Q1.0 Q1.25	Fixed

5 Repeat steps 3 and 4 to adjust other sound characteristics.

The adjustment made will be stored automatically.

Title assignment

You can assign titles to 30 station frequencies (FM and AM) using 8 characters (maximum) for each title.

1 Select "FM" or "AM."

SRC

2 Show the title entry screen.

DISP +



3 Assign a title.

- 1 Select a character.



[Turn]

A	B	C	D	E	F	G
H	I	J	K	L	M	N
O	P	Q	R	S	T	U
V	W	X	Y	Z	0	1
2	3	4	5	6	7	8
9	-	/	<	>	space	

- 2 Move to the next (or previous) character position.



- 3 Repeat steps 1 and 2 until you finish entering the title.

4 Finish the procedure.





[Press]

To erase the entire title

In step 2 above...

DISP [Hold] [Press]

Menu operations

1 Call up the menu.  [Hold]	2 Select the desired item.  [Turn] → [Press]	3 Repeat step 2 if necessary. <ul style="list-style-type: none"> To return to the previous menu, press BACK. To exit from the menu, press DISP or MENU.
--	---	--

Initial: **Underlined**

Category	Menu items	Selectable settings, [reference page]
DEMO	DEMO Display demonstration	<ul style="list-style-type: none"> • <u>DEMO ON</u> : Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. • DEMO OFF : Cancels.
CLOCK	CLOCK DISP *1 Clock display	<ul style="list-style-type: none"> • CLOCK ON : Clock time is shown on the display at all times when the power is turned off. • <u>CLOCK OFF</u> : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [7].
	CLOCK SET Clock setting	: Adjust the hour, then the minute, [7]. (Initial: 1:00)
EQ	EQ Equalizer	: Select a preset sound mode suitable to the music genre. <u>USER, ROCK, CLASSIC, POPS, HIP HOP, JAZZ</u>
DISPLAY	DIMMER Dimmer	<ul style="list-style-type: none"> • DIMMER ON : Dims the display and button illumination. • <u>DIMMER OFF</u> : Cancels.
	SCROLL *2 Scroll	<ul style="list-style-type: none"> • <u>SCROLL ONCE</u> : Scrolls the displayed information once. • SCROLL AUTO : Repeats scrolling (at 5-second intervals). • SCROLL OFF : Cancels. <p>Pressing DISP for more than one second can scroll the display regardless of the setting.</p>
	TAG DISPLAY Tag display	<ul style="list-style-type: none"> • <u>TAG ON</u> : Shows the Tag information while playing MP3/WMA tracks. • TAG OFF : Cancels.
TUNER	MONO *3 Monaural mode	<ul style="list-style-type: none"> • MONO ON : Activate monaural mode to improve FM reception, but stereo effect will be lost, [8]. • <u>MONO OFF</u> : Restore the stereo effect.

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" to save the car's battery.

*2 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*3 Displayed only when the source is "FM."

Category	Menu items	Selectable settings, [reference page]
TUNER	IF BAND Intermediate frequency band	<ul style="list-style-type: none"> • AUTO : Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) • WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
	FADER *4,*5 Fader	R06 – F06 : Adjust the front and rear speaker output balance. (Initial: 00)
AUDIO	BALANCE *5 Balance	L06 – R06 : Adjust the left and right speaker output balance. (Initial: 00)
	LOUD Loudness	<ul style="list-style-type: none"> • LOUD OFF : Cancels. • LOUD ON : Boost low and high frequencies to produce a well-balanced sound at a low volume level.
	VOL ADJUST Volume adjust	VOL ADJ –05 — VOL ADJ +05 : Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. <ul style="list-style-type: none"> • Before making an adjustment, select the source you want to adjust. • "VOL ADJ FIX" appears on the display if "FM" is selected as the source.
	L/O MODE Line output mode	<ul style="list-style-type: none"> • SUB.W : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier). • REAR : Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	SUB.W FREQ *6 Subwoofer cutoff frequency	<ul style="list-style-type: none"> • LOW : Frequencies lower than 72 Hz are sent to the subwoofer. • MID : Frequencies lower than 111 Hz are sent to the subwoofer. • HIGH : Frequencies lower than 157 Hz are sent to the subwoofer.
	SUB.W LEVEL *6 Subwoofer level	SUB.W 00 — SUB.W 08 : Adjust the subwoofer output level. (Initial: SUB.W 04)
	BEEP Key touch tone	<ul style="list-style-type: none"> • BEEP OFF : Deactivates the key touch tone. • BEEP ON : Activates the key touch tone.
	AMP GAIN *7 Amplifier gain control	<ul style="list-style-type: none"> • LOW POWER : VOLUME 00 – VOLUME 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.) • HIGH POWER : VOLUME 00 – VOLUME 50

*4 If you are using a two-speaker system, set the fader level to "00."

*5 This adjustment will not affect the subwoofer output.

*6 Displayed only when "L/O MODE" is set to "SUB.W."

*7 The volume level automatically changes to "VOLUME 30" if you change to "LOW POWER" with the volume level set higher than "VOLUME 30."

Continued on the next page

Category	Menu items	Selectable settings, [reference page]
SRC SELECT	AM ^{*8}	• AM OFF : Disable "AM" in source selection.
	AM station	• AM ON : Enable "AM" in source selection, [4].
	AUX IN ^{*9}	• AUX OFF : Disable "AUX IN" in source selection.
	Auxiliary input	• AUX ON : Enable "AUX IN" in source selection, [4].

^{*8} Displayed only when any source other than "AM" is selected.

^{*9} Displayed only when any source other than "AUX IN" is selected.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops.
Next time you select "CD" as the playback source, playback will start from where it had been stopped previously.
- If no operation is done for about 30 seconds after pressing MENU button, the operation will be canceled.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and the stations are stored anew.
 - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.

- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3/WMA formats.
- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press ▲ to eject the disc.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
 - This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
 - This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
 - Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation has occurred on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - The files on the CD-/CD-RW are written using the “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
 - CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
 - Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
- Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.

- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3:
32 kHz, 44.1 kHz, 48 kHz (for MPEG-1)
16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows extension.
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 64 characters
 - Joliet: up to 32 characters
 - Windows extension: up to 64 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).

Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
 - MP3 files encoded in MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have data such as AIFF, ATAC3, etc.
- The search function works but search speed is not constant.

Continued on the next page

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "CANNOT PLAY" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
 - Folder names : 32 characters
 - File names : 32 characters
 - MP3 Tag : 64 characters
 - WMA Tag : 32 characters
- This unit can recognize a total of 5 000 files, 255 folders (255 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files not based on Windows Media® Audio.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

Title assignment


- If you try to assign titles to more than 30 station frequencies, "NAME FULL" appears. Delete unwanted titles before assignment.

Menu operations

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	<ul style="list-style-type: none"> • Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "AUX IN" cannot be selected.	Check the "SRC SELECT" → "AUX IN" setting (see page 16).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
	• "AM" cannot be selected.	Check the "SRC SELECT" → "AM" setting (see page 16).
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	<ul style="list-style-type: none"> • Unlock the disc (see page 9). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	<ul style="list-style-type: none"> • Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display.	Insert a playable disc into the loading slot.
MP3/WMA playback	• "PLEASE" and "EJECT" appear alternately on the display.	Press  , then insert a disc correctly.
	• Disc cannot be played back.	<ul style="list-style-type: none"> • Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

Continued on the next page

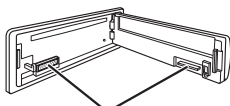
	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> A longer readout time is required ("READING" keeps flashing on the display). 	Do not use too many hierarchical levels and folders.
	<ul style="list-style-type: none"> Tracks do not play back in the order you have intended them to play. 	The playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> The elapsed playing time is not correct. 	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> The correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
USB device playback	<ul style="list-style-type: none"> Noise is generated. 	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> "READING" keeps flashing on the display. 	<ul style="list-style-type: none"> Readout time varies depending on the USB device. Do not use too many hierarchy or folders. Turn off the power then on again. Reattach the USB device again.
	<ul style="list-style-type: none"> "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> Tracks/folders are not played back in the order you have intended. 	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	<ul style="list-style-type: none"> "CANNOT PLAY" flashes on the display. "NO USB" appears on the display. The unit cannot detect the USB device. 	<ul style="list-style-type: none"> Attach a USB device that contains tracks encoded in an appropriate format. Reattach the USB device again.
	<ul style="list-style-type: none"> Correct characters are not displayed (e.g. album name). 	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	<ul style="list-style-type: none"> While playing a track, sound is sometimes interrupted. 	<p>The MP3/WMA tracks have not been properly copied into the USB device.</p> <p>Copy MP3/WMA tracks again into the USB device, and try again.</p>

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Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.

If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



Specifications

AUDIO AMPLIFIER SECTION		
Maximum Power Output:	Front/Rear:	50 W per channel
Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	Bass:	± 12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle:	± 12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble:	± 12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response:		40 Hz to 20 000 Hz
Signal-to-Noise Ratio:		70 dB
Line-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Output Impedance:		1 k Ω
Subwoofer-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Other Terminal:		USB input jack, AUX (auxiliary) input jack

TUNER SECTION		
Frequency Range:	FM:	87.5 MHz to 108.0 MHz
	AM:	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity:	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity:	16.3 dBf (1.8 μ V/75 Ω)
	Alternate Channel Selectivity (400 kHz):	65 dB
	Frequency Response:	40 Hz to 15 000 Hz
	Stereo Separation:	30 dB
AM Tuner	Sensitivity:	20 μ V
	Selectivity:	35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate: 320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Compatible Device:	Mass storage class
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	DC 5 V --- 500 mA

GENERAL		
Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:		Negative ground
Allowable Operating Temperature:		0°C to +40°C
Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 160 mm
	Panel Size:	188 mm × 58 mm × 6 mm
Mass:		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

JVC



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1008DTSMdTJEIN

JVC KD-R504

Installation/Connection Manual

GET0585-002A
[UI]

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

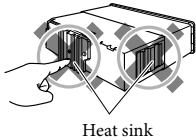
WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

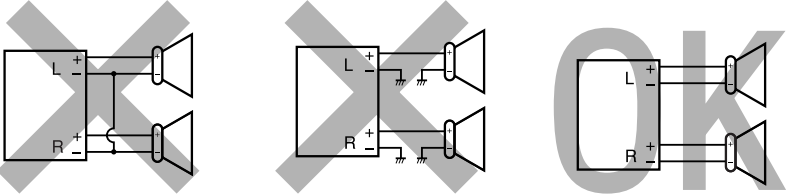
- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "AMP GAIN" setting to prevent the speakers from being damaged (see page 15 of the INSTRUCTIONS).
- To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



Heat sink

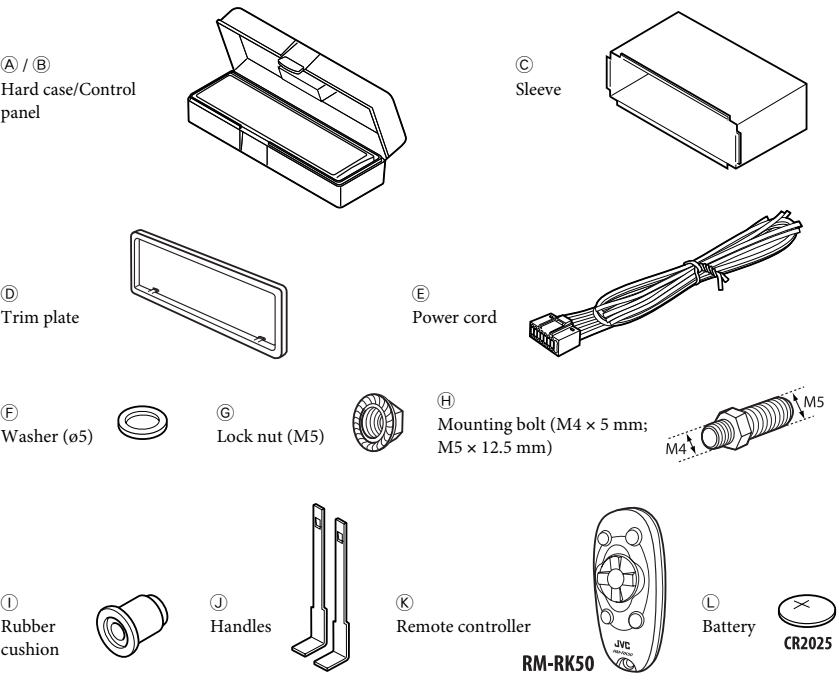
PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



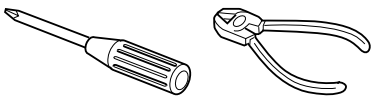
Parts list for installation and connection

The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.



TROUBLESHOOTING

- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the "–" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the "–" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?



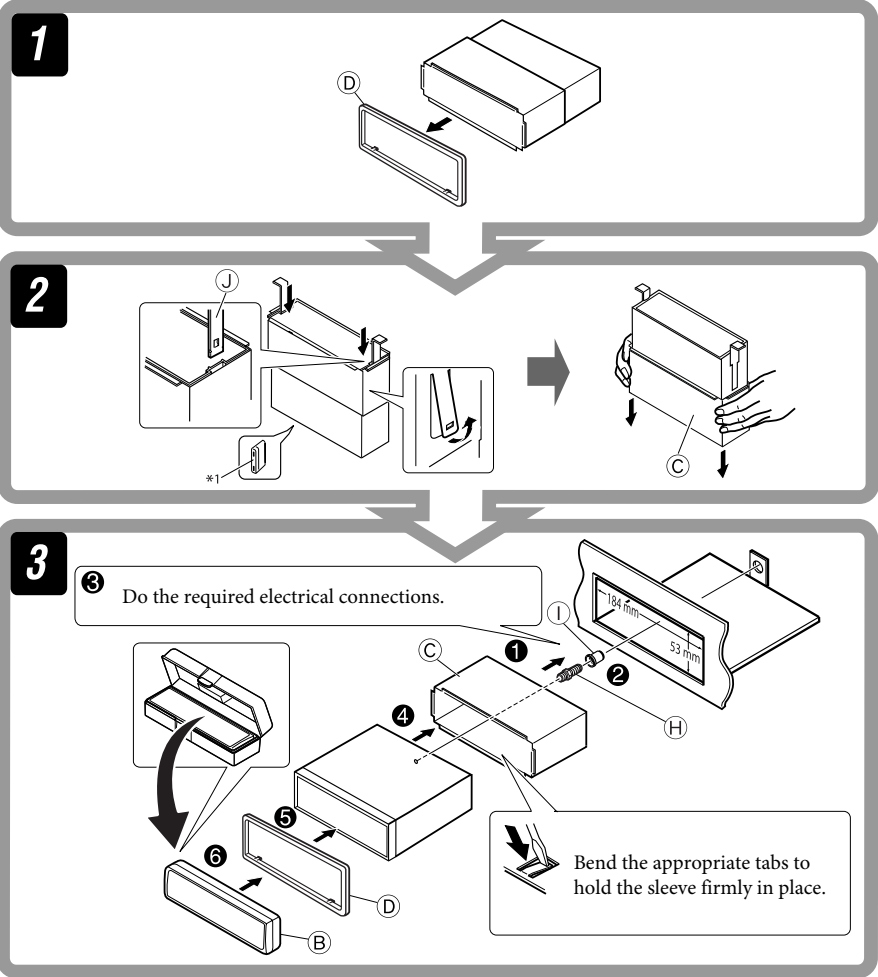
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INSTALLATION (IN-DASH MOUNTING)

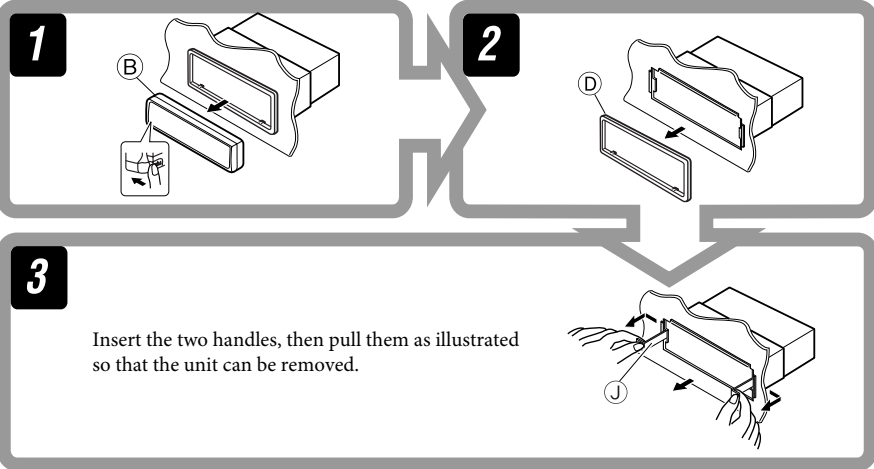
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

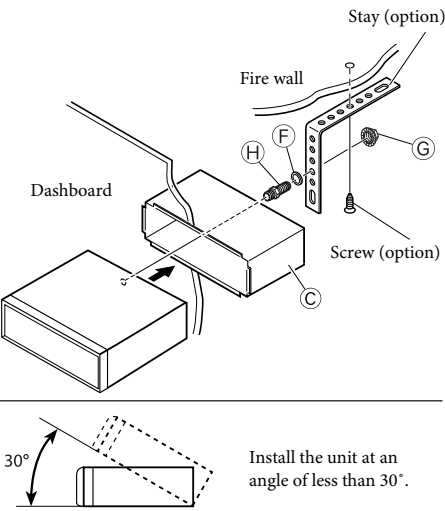


Removing the unit

Before removing the unit, release the rear section.



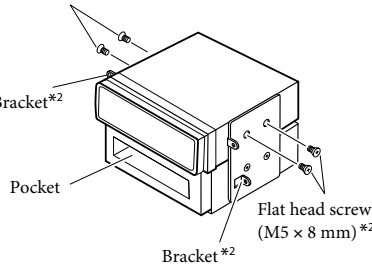
When using the optional stay



When installing the unit without using the sleeve

In a Toyota car for example, first remove the car radio and install the unit in its place.

Flat head screws (M5 x 8 mm) *2



Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

*1 When you stand the unit, be careful not to damage the fuse on the rear.

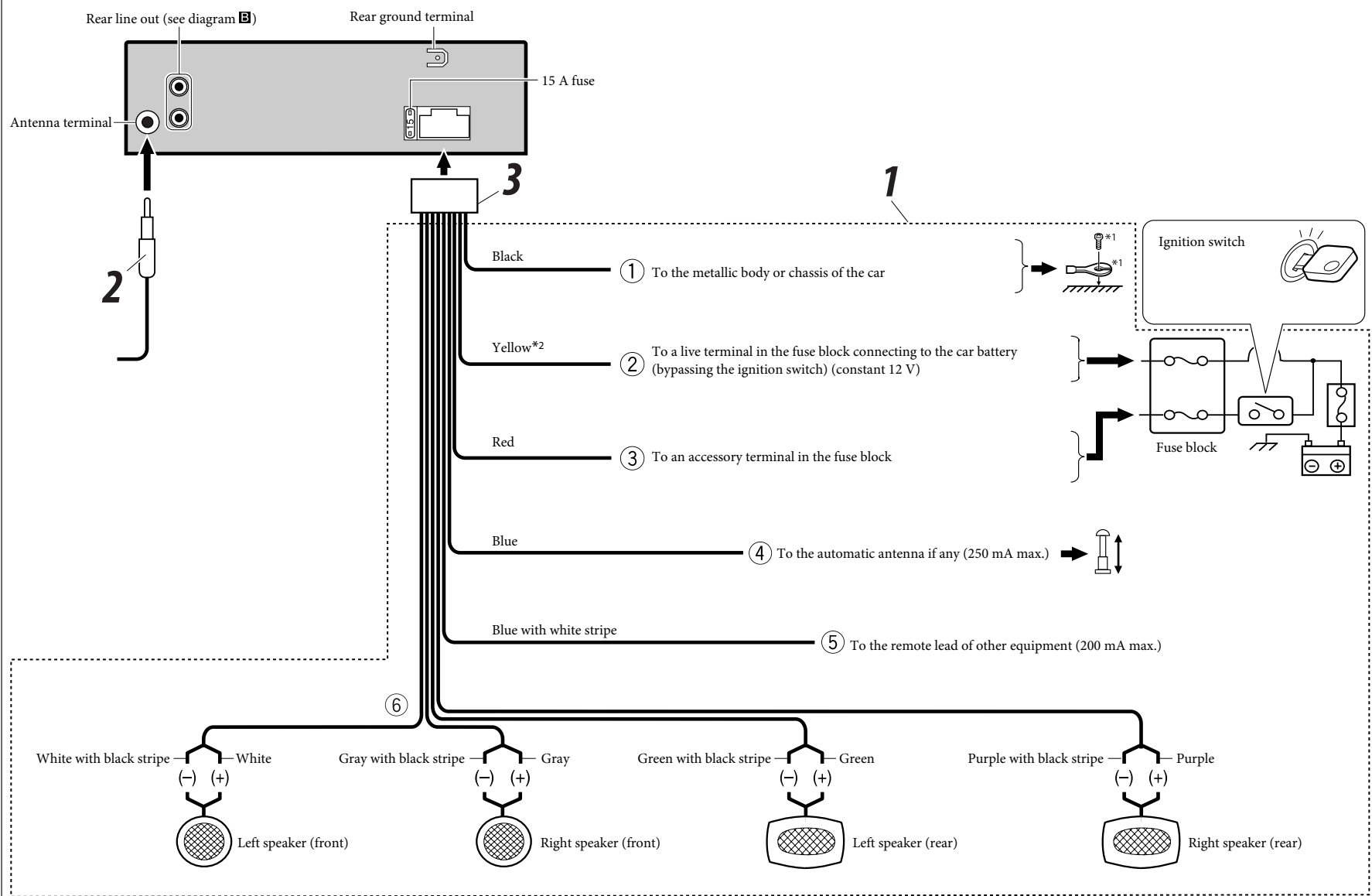
*2 Not supplied for this unit.

ELECTRICAL CONNECTIONS

A Typical connections

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

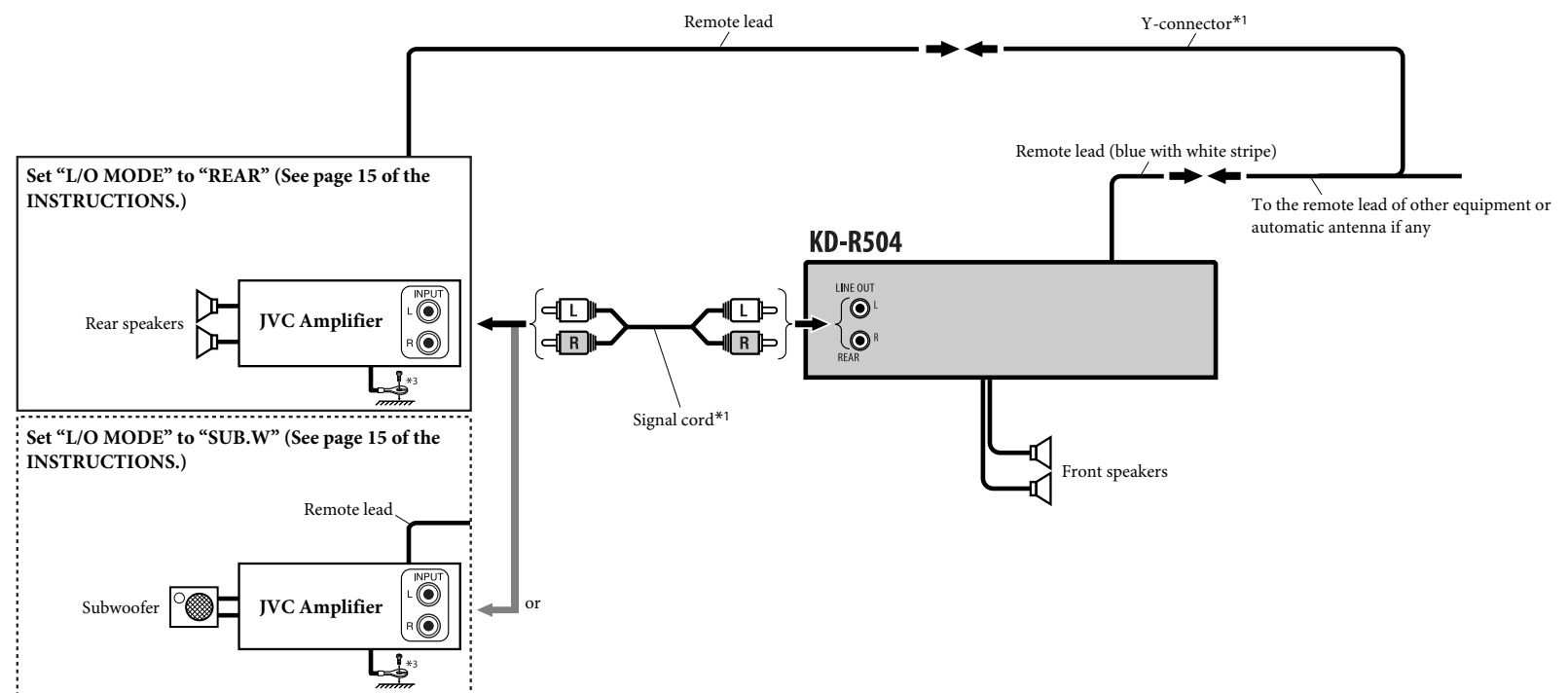
- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.



B Connecting the external amplifier or subwoofer

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**



*1 Not supplied for this unit.

*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

JVC

CD RECEIVER

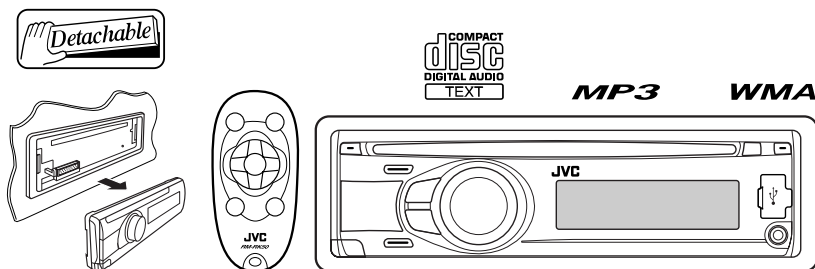
KD-R506/KD-R505/
KD-RC502/KD-RC501

ENGLISH

เครื่องเล่น CD

KD-R506/KD-R505/
KD-RC502/KD-RC501

ไทย



For canceling the display demonstration, see page 7.

ดูที่หน้า 7 เพื่อยกเลิกการสาธิตภาพประกอบ

For installation and connections, refer to the separate manual.

กรุณาดูคู่มือที่แยกต่างหาก ในการติดตั้งและการเชื่อมต่อ

INSTRUCTIONS

คำแนะนำ

GET0584-001B
[U/UH]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT, NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACION LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学装置で直接 見ないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)
--	---	--	--	--	--



[European Union only]

Warning:

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

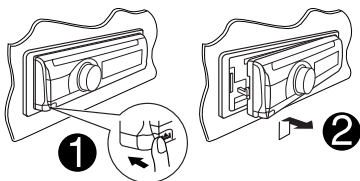
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

This mark is used to indicate...

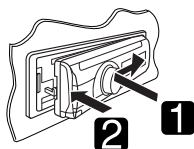


Turn the control dial to make a selection, then press to confirm the selection.

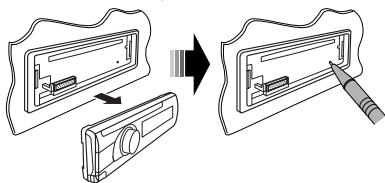
■ Detaching the control panel



■ Attaching the control panel



■ How to reset your unit



- Your preset adjustments will also be erased.

■ How to forcibly eject a disc



- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, see page 9.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

CONTENTS

Detaching the control panel.....	3
Attaching the control panel	3
How to reset your unit	3
How to forcibly eject a disc.....	3

OPERATIONS

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• Using the remote controller (RM-RK50).....	6
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EXTERNAL DEVICES

Listening to the other external components.....	11
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SETTINGS

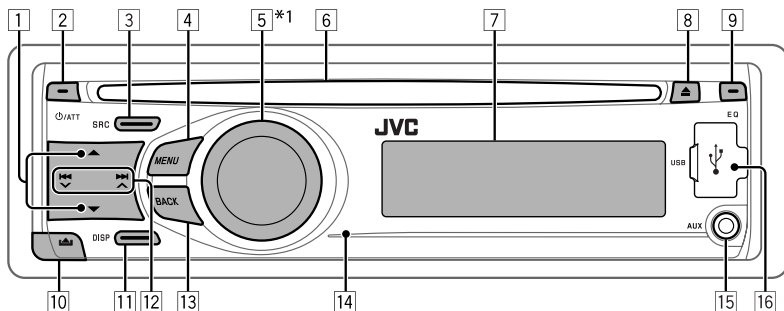
Selecting a preset sound mode	12
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REFERENCES

More about this unit	16
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Basic operations

Using the control panel



- 1 • **FM/AM**: Select preset station.
• **CD/USB**: Select folder.
- 2 • Turn on the power.
• Attenuate the sound (if the power is on).
• Turn off the power [Hold].
- 3 Select the source.
FM → **AM***2 → **CD***3 → **USB** → **AUX IN***2 →
(back to the beginning)
- 4 • Enter list operations.
• Enter Menu setting [Hold].
- 5 • Control the volume*4 or select items [Turn].
• Confirm the selection [Press].
• **FM**: Enter SSM preset mode [Hold].
• **CD/USB**: Enter playback mode [Hold].
Pause/resume playback*4 [Press].
- 6 Loading slot
- 7 Display window
- 8 Eject disc.
- 9 Select the sound mode.

- 10 Detach the panel.
- 11 Change the display information.
- 12 • **FM/AM**: Search for station.
• **CD/USB**: Select track.
- 13 Return to the previous menu.
- 14 Remote sensor
- 15 AUX (auxiliary) input jack
- 16 USB (Universal Serial Bus) input jack

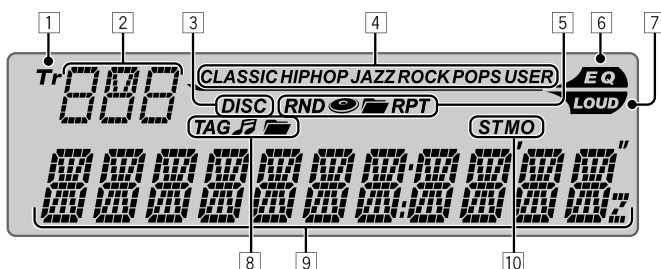
*1 Also known as "Control dial" in this manual.

*2 You cannot select these sources if they were disabled in the Menu (see "SRC SELECT" in "Menu operations" on page 16).

*3 You cannot select "CD" as the playback source if no disc is in the unit.

*4 You can still adjust the volume during pause when the selected source is CD/USB.
Before resume playback, check to be sure that you have not raise the volume level too much.

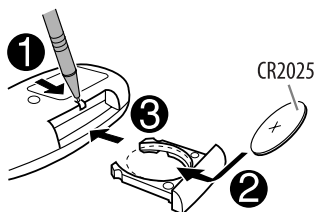
Display window



- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Tr (track) indicator 2 Source display / Track number / Folder number / Time countdown indicator 3 DISC indicator 4 Sound mode indicators—CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER 5 Playback mode / item indicators— RND (random), (disc), (folder), RPT (repeat) | <ul style="list-style-type: none"> 6 EQ (equalizer) indicator 7 LOUD (loudness) indicator 8 Disc information indicators— TAG (Tag information), (track/file), (folder) 9 Main display 10 Tuner reception indicators—ST (stereo), MO (monaural) |
|---|---|

Using the remote controller (RM-RK50)

Installing the lithium coin battery (CR2025)



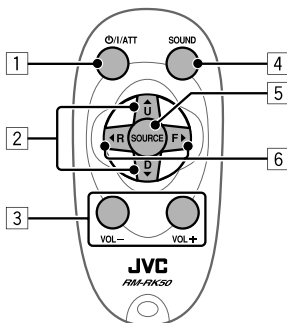
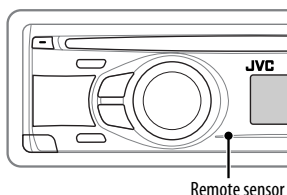
Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

If the effectiveness of the remote controller decreases, replace the battery.

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).



- 1 • Turns the power on if pressed briefly or attenuates the sound when the power is on.
- 2 • Turns the power off if pressed and held.
- 2 • Changes the preset stations.
- Changes the folder of the MP3/WMA.
- 3 Adjusts the volume level.
- 4 Selects the sound mode.
- 5 Selects the source.
- 6 • Searches for stations if pressed briefly.
- Fast-forwards or reverses the track if pressed and held.
- Changes the tracks if pressed briefly.




Warning (to prevent accidents and damage):

- Do not install any battery other than CR2025 or its equivalent.
- Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time.
- Store the battery in a place where children cannot reach.
- Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
- Do not leave the battery with other metallic materials.
- Do not poke the battery with tweezers or similar tools.
- Wrap the battery with tape and insulate when throwing away or saving it.

Preparation

■ Canceling the display demonstration and setting the clock

- See also page 14.

1  ⏻/ATT	Turn on the power.
2  [Hold] Press and hold until the main menu is called up.  [Turn] → [Press] • Repeat this procedure.	Cancel the display demonstrations Select "DEMO," then "DEMO OFF." Set the clock Select "CLOCK" → "CLOCK SET." Adjust the hour, then press control dial once to proceed to adjust the minute. • To return to the previous menu, press BACK.

Changing the display information

DISP 

When the power is turned off: The current clock time is displayed if "CLOCK DISP" is set to "CLOCK OFF," (see page 14).

When the power is turned on: The display information of the current source changes as follows:



FM/AM	Frequency → Clock → Station name* ¹ → (back to the beginning)
CD	Audio CD/CD Text: Disc title/performer* ² → Track title* ² → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)
CD/USB	MP3/WMA: Album name/performer (folder name)* ³ → Track title (file name)* ³ → Current track number with the elapsed playing time → Current track number with the clock time → (back to the beginning)

*¹ If no title is assigned to a station, "NO NAME" appears. To assign a title to a station, see page 13.

*² If the current disc is an audio CD, "NO NAME" appears.

*³ If an MP3/WMA file does not have Tag information or "TAG DISPLAY" is set to "TAG OFF" (see page 14), folder name and file name appear.

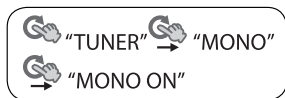
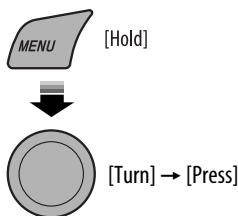
Listening to the radio

1	SRC 	Select "FM" or "AM."
2		Search for a station to listen—Auto Search. When a station is tuned in, searching stops. To stop searching, press the same button again. <ul style="list-style-type: none"> You can also search for a station manually—Manual Search. Hold either one of the buttons until "M" flashes on the display, then press it repeatedly. When receiving an FM stereo broadcast with sufficient signal strength, the ST indicator lights up on the display.

Improving the FM reception

When an FM stereo broadcast is hard to receive, activate monaural mode for better reception.

- See also page 14.



Reception improves, but stereo effect will be lost.

- The MO indicator lights up on the display.

To restore the stereo effect, repeat the same procedure to select "MONO OFF." The MO indicator goes off.

Storing stations in memory

Automatic presetting (FM)—SSM (Strong-station Sequential Memory)

You can preset up to 18 stations for FM.

1 While listening to a station...



2 Select the preset number range you want to store.







SSM 01–06 ↔ SSM 07–12 ↔ SSM 13–18

3



Local FM stations with the strongest signals are searched and stored automatically.

- To stop searching**, press    .

To preset other 6 stations, repeat from step 1 again.

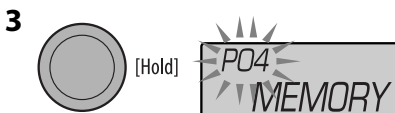
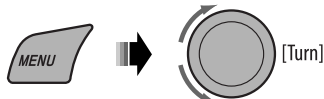
Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

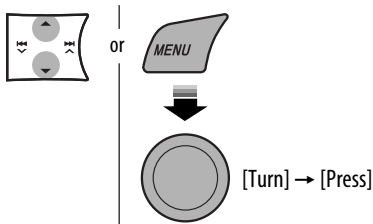
Ex.: Storing FM station of 92.50 MHz into preset number "04."




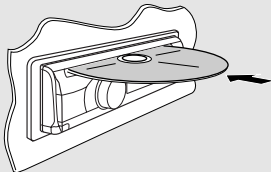
2 Select preset number "04."



Selecting preset station



Disc operations

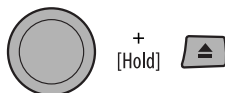
1		Turn on the power.
2		Insert a disc. All tracks will be played repeatedly until you change the source or eject the disc.

Stop playing and ejecting the disc



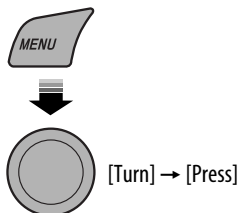
- "NO DISC" appears. Press SRC to listen to another playback source.

Prohibiting disc ejection



To cancel the prohibition, repeat the same procedure.




Selecting a track/folder



- For MP3/WMA discs, select the desired folder, then the desired track by repeating the control dial procedures.
- To return to the previous menu, press BACK.




Continued on the next page

Pressing (or holding) the following buttons allows you to...

	[Press] Pause/resume playback.
	MP3/WMA: Select folder
	[Press] Select track [Hold] Reverse/fast-forward track

Selecting the playback modes

You can use only one of the following playback modes at a time.

-  [Hold]
-  [Turn] → [Press]
REPEAT ↔ RANDOM
-  [Turn] → [Press]

REPEAT

TRACK RPT : Repeats current track

FOLDER RPT : MP3/WMA: Repeats current folder

RANDOM

FOLDER RND : MP3/WMA: Randomly plays all tracks of current folder, then tracks of next folders

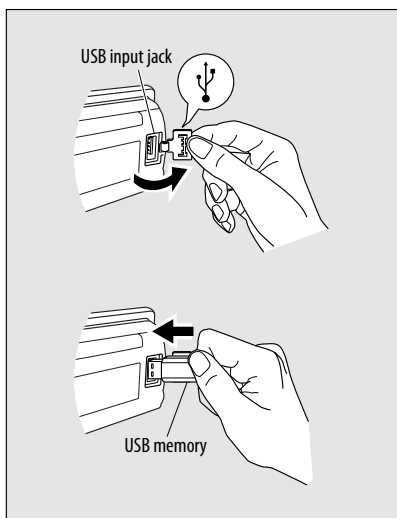
ALL RND : Randomly plays all tracks

- To cancel repeat play or random play, select **"RPT OFF"** or **"RND OFF."**
- To return to the previous menu, press **BACK**.

Listening to the USB device

This unit can play MP3/WMA tracks stored in a USB device.

All tracks will be played repeatedly until you change the source or detach the USB device.



If a USB device has been attached...

SRC 

Playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.

- Press SRC to listen to another playback source.

You can operate the USB device in the same way you operate the files on a disc. (See pages 9 and 10.)



Cautions:

- Avoid using the USB device if it might hinder your safety driving.
- Do not pull out and attach the USB device repeatedly while "READING" is shown on the display.
- Do not start the car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.
- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- For more details about USB operations, see page 18.

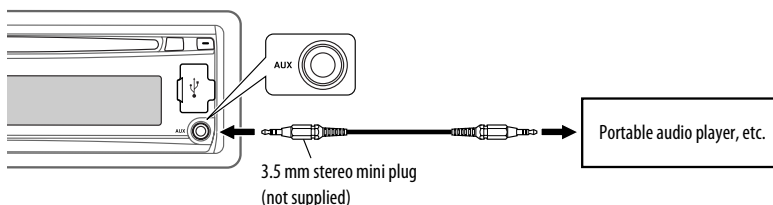
Listening to the other external components

You can connect an external component to AUX (auxiliary) input jack on the control panel.

Preparation: Make sure "AUX ON" is selected in the "SRC SELECT" → "AUX IN" setting, see page 16.

1	SRC 	Select "AUX IN."
2	—	Turn on the connected component and start playing the source.
3	 [Turn]	Adjust the volume.
4	—	Adjust the sound as you want (see pages 12 and 13).

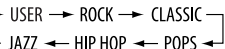
Connecting an external component to the AUX input jack



Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre.

- See also page 14.



or

Selecting from Menu.



[Hold]



[Turn] → [Press]



"EQ"



"USER/ROCK/CLASSIC
/POPS/HIP HOP/JAZZ"

- See below and page 13 for "USER" settings.

Preset value setting for each sound mode

Sound mode	Preset value									LOUD (loudness)
	BASS			MIDDLE			TREBLE			
	Freq.	Level	Q	Freq.	Level	Q	Freq.	Level	Q	
USER	60 Hz	00	Q1.25	1.0 kHz	00	Q1.0	10.0 kHz	00	—	OFF
ROCK	100 Hz	+03	Q1.0	1.0 kHz	00	Q1.25	10.0 kHz	+02	—	
CLASSIC	80 Hz	+01	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	
POPS	100 Hz	+02	Q1.25	1.0 kHz	+01	Q1.25	10.0 kHz	+02	—	
HIP HOP	60 Hz	+04	Q1.0	1.0 kHz	−02	Q1.0	10.0 kHz	+01	—	
JAZZ	80 Hz	+03	Q1.25	1.0 kHz	00	Q1.25	10.0 kHz	+03	—	

Freq.: Frequency Q: Q-slope

Storing your own sound mode

You can store your own adjustments in memory.

1 Select "USER" for "EQ."



[Hold]



[Turn] → [Press]



"EQ"



"USER"

2 While "USER" is shown on the display...



[Hold]

3 Select a tone.



[Turn] → [Press]



4 Adjust the sound elements of the selected tone.



[Turn] → [Press]

- 1 Adjust the frequency.
- 2 Adjust the level.
- 3 Adjust the Q-slope.

Sound elements	Range/selectable items		
	BASS	MIDDLE	TREBLE
Frequency	60 Hz	0.5 kHz	10.0 kHz
	80 Hz	1.0 kHz	12.5 kHz
	100 Hz	1.5 kHz	15.0 kHz
	200 Hz	2.5 kHz	17.5 kHz
Level	-06 to +06	-06 to +06	-06 to +06
Q	Q1.0	Q0.75	Fixed
	Q1.25	Q1.0	
	Q1.5	Q1.25	
	Q2.0		

5 Repeat steps 3 and 4 to adjust other sound characteristics.

The adjustment made will be stored automatically.

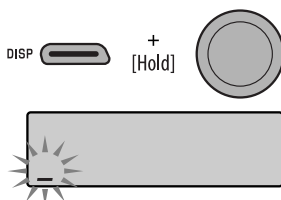
Title assignment

You can assign titles to 30 station frequencies (FM and AM) using 8 characters (maximum) for each title.

1 Select "FM" or "AM."

SRC 

2 Show the title entry screen.



3 Assign a title.

- 1 Select a character.



[Turn]

A	B	C	D	E	F	G
H	I	J	K	L	M	N
O	P	Q	R	S	T	U
V	W	X	Y	Z	0	1
2	3	4	5	6	7	8
9	-	/	<	>	space	

- 2 Move to the next (or previous) character position.



- 3 Repeat steps 1 and 2 until you finish entering the title.

4 Finish the procedure.



[Press]

To erase the entire title

In step 2 above...



[Press]

Menu operations

1 Call up the menu.



[Hold]

2 Select the desired item.



[Turn] → [Press]

3 Repeat step 2 if necessary.

- To return to the previous menu, press **BACK**.
- To exit from the menu, press **DISP** or **MENU**.

Initial: Underlined

Category	Menu items	Selectable settings, [reference page]
DEMO	DEMO Display demonstration	<ul style="list-style-type: none"> • DEMO ON : Display demonstration will be activated automatically if no operation is done for about 20 seconds, [7]. • DEMO OFF : Cancels.
CLOCK	CLOCK DISP *1 Clock display	<ul style="list-style-type: none"> • CLOCK ON : Clock time is shown on the display at all times when the power is turned off. • CLOCK OFF : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [7].
	CLOCK SET Clock setting	: Adjust the hour, then the minute, [7]. (Initial: 1:00)
EQ	EQ Equalizer	: Select a preset sound mode suitable to the music genre. USER, ROCK, CLASSIC, POPS, HIP HOP, JAZZ
DISPLAY	DIMMER Dimmer	<ul style="list-style-type: none"> • DIMMER ON : Dims the display and button illumination. • DIMMER OFF : Cancels.
	SCROLL *2 Scroll	<ul style="list-style-type: none"> • SCROLL ONCE : Scrolls the displayed information once. • SCROLL AUTO : Repeats scrolling (at 5-second intervals). • SCROLL OFF : Cancels. <p>Pressing DISP for more than one second can scroll the display regardless of the setting.</p>
	TAG DISPLAY Tag display	<ul style="list-style-type: none"> • TAG ON : Shows the Tag information while playing MP3/WMA tracks. • TAG OFF : Cancels.
TUNER	MONO *3 Monaural mode	<ul style="list-style-type: none"> • MONO ON : Activate monaural mode to improve FM reception, but stereo effect will be lost, [8]. • MONO OFF : Restore the stereo effect.

*1 If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" to save the car's battery.

*2 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

*3 Displayed only when the source is "FM."

Category	Menu items	Selectable settings, [reference page]
TUNER	IF BAND Intermediate frequency band	<ul style="list-style-type: none"> • AUTO : Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) • WIDE : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
	FADER *4,*5 Fader	R06 – F06 : Adjust the front and rear speaker output balance. (Initial: 00)
AUDIO	BALANCE *5 Balance	L06 – R06 : Adjust the left and right speaker output balance. (Initial: 00)
	LOUD Loudness	<ul style="list-style-type: none"> • LOUD OFF : Cancels. • LOUD ON : Boost low and high frequencies to produce a well-balanced sound at a low volume level.
	VOL ADJUST Volume adjust	VOL ADJ –05 — VOL ADJ +05 (Initial: VOL ADJ 00) : Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. <ul style="list-style-type: none"> • Before making an adjustment, select the source you want to adjust. • “VOL ADJ FIX” appears on the display if “FM” is selected as the source.
	L/O MODE Line output mode	<ul style="list-style-type: none"> • SUB.W : Select if the REAR LINE OUT terminals are used for connecting a subwoofer (through an external amplifier). • REAR : Select if the REAR LINE OUT terminals are used for connecting the speakers (through an external amplifier).
	SUB.W FREQ *6 Subwoofer cutoff frequency	<ul style="list-style-type: none"> • LOW : Frequencies lower than 72 Hz are sent to the subwoofer. • MID : Frequencies lower than 111 Hz are sent to the subwoofer. • HIGH : Frequencies lower than 157 Hz are sent to the subwoofer.
	SUB.W LEVEL *6 Subwoofer level	SUB.W 00 — SUB.W 08 : Adjust the subwoofer output level. (Initial: SUB.W 04)
	BEEP Key touch tone	<ul style="list-style-type: none"> • BEEP OFF : Deactivates the key touch tone. • BEEP ON : Activates the key touch tone.
	AMP GAIN *7 Amplifier gain control	<ul style="list-style-type: none"> • LOW POWER : VOLUME 00 – VOLUME 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.) • HIGH POWER : VOLUME 00 – VOLUME 50

*4 If you are using a two-speaker system, set the fader level to “00.”

*5 This adjustment will not affect the subwoofer output.

*6 Displayed only when “L/O MODE” is set to “SUB.W.”

*7 The volume level automatically changes to “VOLUME 30” if you change to “LOW POWER” with the volume level set higher than “VOLUME 30.”

Continued on the next page

Category	Menu items	Selectable settings, [reference page]
SRC SELECT	AM ^{*8} AM station	<ul style="list-style-type: none"> • AM OFF : Disable "AM" in source selection. • AM ON : Enable "AM" in source selection, [4].
	AUX IN ^{*9} Auxiliary input	<ul style="list-style-type: none"> • AUX OFF : Disable "AUX IN" in source selection. • AUX ON : Enable "AUX IN" in source selection, [4].

^{*8} Displayed only when any source other than "AM" is selected.

^{*9} Displayed only when any source other than "AUX IN" is selected.

More about this unit

Basic operations

Turning on the power

- By pressing SRC button on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.

General

- If you change the source while listening to a disc, playback stops.
Next time you select "CD" as the playback source, playback will start from where it had been stopped previously.
- If no operation is done for about 30 seconds after pressing MENU button, the operation will be canceled.

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and the stations are stored anew.
 - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.

- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.

Disc operations

Caution for DualDisc playback

- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3/WMA formats.
- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press ▲ to eject the disc.
- MP3 and WMA "tracks" (words "file" and "track" are used interchangeably) are recorded in "folders."
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.

Playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
 - Discs are dirty or scratched.
 - Moisture condensation has occurred on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - The files on the CD-R/CD-RW are written using the “Packet Write” method.
 - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use the following CD-Rs or CD-RWs:
 - Discs with stickers, labels, or a protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.

Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.

- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows extension.
- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 64 characters
 - Joliet: up to 32 characters
 - Windows extension: up to 64 characters
- This unit can recognize a total of 512 files, 255 folders, and 8 hierarchical levels.
- This unit can play back files recorded in VBR (variable bit rate).
Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
 - MP3 files encoded in MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have data such as AIFF, ATRAC3, etc.
- The search function works but search speed is not constant.

Continued on the next page

Playing MP3/WMA tracks from a USB device

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- If the connected USB device does not have the correct files, "CANNOT PLAY" appears.
- This unit can show Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate of MP3: 32 kbps — 320 kbps
 - Sampling frequency of MP3: 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1) 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
 - Bit rate of WMA: 32 kbps — 320 kbps
 - Sampling frequency of WMA: 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for:
 - Folder names : 32 characters
 - File names : 32 characters
 - MP3 Tag : 64 characters
 - WMA Tag : 32 characters
- This unit can recognize a total of 5 000 files, 255 folders (255 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit does not support SD card reader.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- This unit may not recognize a USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an inappropriate format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded in lossless, professional, and voice format.
 - WMA files not based on Windows Media® Audio.

Ejecting a disc or removing a USB device

- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- After ejecting a disc or removing a USB device, "NO DISC" or "NO USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SRC to select another playback source.

Title assignment


- If you try to assign titles to more than 30 station frequencies, "NAME FULL" appears. Delete unwanted titles before assignment.

Menu operations

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "AUX IN" cannot be selected.	Check the "SRC SELECT" → "AUX IN" setting (see page 16).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
	• "AM" cannot be selected.	Check the "SRC SELECT" → "AM" setting (see page 16).
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back.	• Insert a finalized CD-R/CD-RW.
	• Tracks on the CD-R/CD-RW cannot be skipped.	• Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 9). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• "NO DISC" appears on the display.	Insert a playable disc into the loading slot.
	• "PLEASE" and "EJECT" appear alternately on the display.	Press  , then insert a disc correctly.
MP3/WMA playback	• Disc cannot be played back.	• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3> or <.wma> to the file names.
	• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)

Continued on the next page

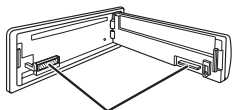
	Symptoms	Remedies/Causes
MP3/WMA playback	<ul style="list-style-type: none"> • A longer readout time is required ("READING" keeps flashing on the display). 	Do not use too many hierarchical levels and folders.
	<ul style="list-style-type: none"> • Tracks do not play back in the order you have intended them to play. 	The playback order is determined when the files are recorded.
	<ul style="list-style-type: none"> • The elapsed playing time is not correct. 	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc.
	<ul style="list-style-type: none"> • "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> • The correct characters are not displayed (e.g. album name). 	This unit can only display letters (upper case), numbers, and a limited number of symbols.
USB device playback	<ul style="list-style-type: none"> • Noise is generated. 	The track played back is not an MP3/WMA track. Skip to another file. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • "READING" keeps flashing on the display. 	<ul style="list-style-type: none"> • Readout time varies depending on the USB device. • Do not use too many hierarchy or folders. • Turn off the power then on again. • Reattach the USB device again.
	<ul style="list-style-type: none"> • "NO FILE" appears on the display. 	<p>Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.</p> <p><i>* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.</i></p>
	<ul style="list-style-type: none"> • Tracks/folders are not played back in the order you have intended. 	The playback order is determined by the write-in time stamp. The first track/folder written into the USB device will be the first track/folder for playback.
	<ul style="list-style-type: none"> • "CANNOT PLAY" flashes on the display. • "NO USB" appears on the display. • The unit cannot detect the USB device. 	<ul style="list-style-type: none"> • Attach a USB device that contains tracks encoded in an appropriate format. • Reattach the USB device again.
	<ul style="list-style-type: none"> • Correct characters are not displayed (e.g. album name). 	This unit can only display alphabets (upper case), numbers, and a limited number of symbols.
	<ul style="list-style-type: none"> • While playing a track, sound is sometimes interrupted. 	<p>The MP3/WMA tracks have not been properly copied into the USB device.</p> <p>Copy MP3/WMA tracks again into the USB device, and try again.</p>

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly.

If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:	Front/Rear:	50 W per channel
Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range:	Bass:	± 12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle:	± 12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble:	± 12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response:		40 Hz to 20 000 Hz
Signal-to-Noise Ratio:		70 dB
Line-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Output Impedance:		1 k Ω
Subwoofer-Out Level/Impedance:		2.5 V/20 k Ω load (full scale)
Other Terminal:		USB input jack, AUX (auxiliary) input jack

TUNER SECTION

Frequency Range:	FM:	87.5 MHz to 108.0 MHz
	AM:	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity:	11.3 dBf (1.0 μ V/75 Ω)
	50 dB Quieting Sensitivity:	16.3 dBf (1.8 μ V/75 Ω)
	Alternate Channel Selectivity (400 kHz):	65 dB
	Frequency Response:	40 Hz to 15 000 Hz
	Stereo Separation:	30 dB
AM Tuner	Sensitivity:	20 μ V
	Selectivity:	35 dB

CD PLAYER SECTION	
Type:	Compact disc player
Signal Detection System:	Non-contact optical pickup (semiconductor laser)
Number of Channels:	2 channels (stereo)
Frequency Response:	5 Hz to 20 000 Hz
Dynamic Range:	96 dB
Signal-to-Noise Ratio:	98 dB
Wow and Flutter:	Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)	Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format:	Max. Bit Rate: 320 kbps

USB SECTION	
USB Standard:	USB 1.1, USB 2.0
Data Transfer Rate (Full Speed):	Max. 12 Mbps
Compatible Device:	Mass storage class
Compatible File System:	FAT 32/16/12
Playable Audio Format:	MP3/WMA
Max. Current:	DC 5 V \pm 500 mA

GENERAL		
Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
Grounding System:		Negative ground
Allowable Operating Temperature:		0°C to +40°C
Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 160 mm
	Panel Size:	188 mm × 58 mm × 6 mm
Mass:		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

หากมีปัญหาในการใช้งาน
กรุณาคัดปุ่มตั้งค่าเริ่มต้นใหม่
กรุณาดูหน้าวิธีตั้งค่าเครื่องใหม่

JVC



EN, TH

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0509DTSMDTJEIN

JVC

KD-R506/KD-R505/KD-RC502/KD-RC501

Installation/Connection Manual

การติดตั้ง/คู่มือการติดตั้ง

GET0584-006B
[U/UH]

0409DTSMDTJEIN
EN, TH

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ENGLISH

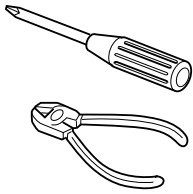
This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

WARNINGS

To prevent short circuits, we recommend that you disconnect the battery’s negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car’s chassis again after installation.**

- Notes:**
- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
 - It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change “AMP GAIN” setting to prevent the speakers from being damaged (see page 15 of the INSTRUCTIONS).
 - To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
 - The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ไทย

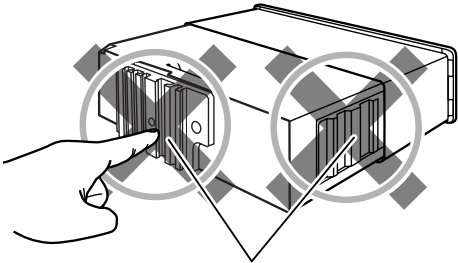
ชุดประกอบนี้ได้รับการออกแบบมาเพื่อใช้งานกับระบบ กระแสไฟฟ้าสายดินขั้วลบกระแสตรง **12 โวลต์** หากรถยนต์ของคุณไม่
ได้ในระบบนี้ ต้องใช้เครื่องแปลงกระแสไฟช่วย ซึ่งสามารถหาซื้อได้จากร้านขายเครื่องเสียงรถยนต์ JVC

คำเตือน

เพื่อป้องกันการเกิดไฟฟ้าลัดวงจรขอแนะนำให้ปลดขั้วแบตเตอรี่ลบออกแล้วจึงต่อสายไฟก่อนติดตั้งเครื่อง

- ตรวจสอบให้แน่ใจว่าได้เดินสายดินต่อระหว่างเครื่องกับตัวถัง รถยนต์ใหม่แล้วหลังจากติดตั้ง

- หมายเหตุ:**
- ใช้ฟิวส์เฉพาะแทนฟิวส์ หากฟิวส์ขาดบ่อย ให้ปรึกษาร้านขายเครื่องเสียงรถยนต์ JVC
 - ขอแนะนำให้ต่อลำโพง ที่มีกำลังขับสูงสุดเกินกว่า 50 W (ทั้งด้านหน้าและด้านหลัง มีความต้านทาน **4 Ω ถึง 8 Ω**)
ถ้ากำลังขับต่ำกว่า 50 W ให้เปลี่ยนค่า “AMP GAIN” เพื่อป้องกันไม่ให้ลำโพงชำรุด (ดูหน้า 15 คำแนะนำ)
 - การป้องกันการลัดวงจร จะต้องพันขั้วสายตะกั่ว ที่ไม่ใช้แล้วด้วยเทปพันสายไฟ
 - แผ่นระบายความร้อนจะร้อนมากหลังจากใช้ ระวังอย่าไป สัมผัสเมื่อถอดชุดประกอบนี้



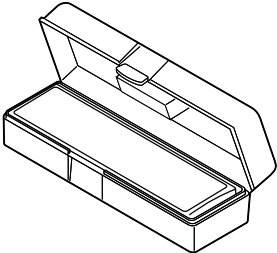
Heat sink / แผ่นระบายความร้อน

Parts list for installation and connection

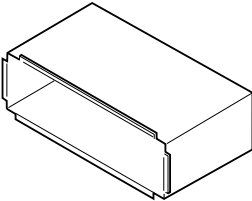
The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

รายการส่วนประกอบสำหรับติดตั้งและเชื่อมต่อ

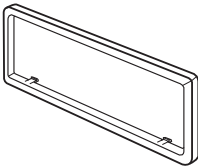
ส่วนประกอบต่อไปนี้ให้มาพร้อมกับชุดประกอบนี้ หากมีสิ่งใดไม่ครบ กรุณาปรึกษาตัวแทนจำหน่ายเครื่องเสียงติดรถยนต์ JVC โดยทันที



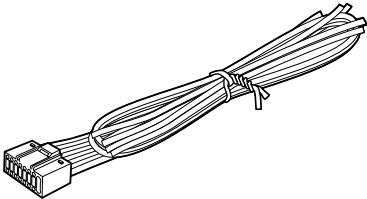
A / B
Hard case/Control panel
สังกะสี/หน้าปิด



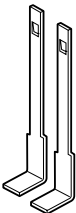
C
Sleeve
ปลอกหุ้ม



D
Trim plate
แผ่นโลหะขอบแต่ง



E
Power cord
สายเคเบิลกำลัง



F
Handles
คันบังคับ



G
Remote controller
รีโมตคอนโทรล

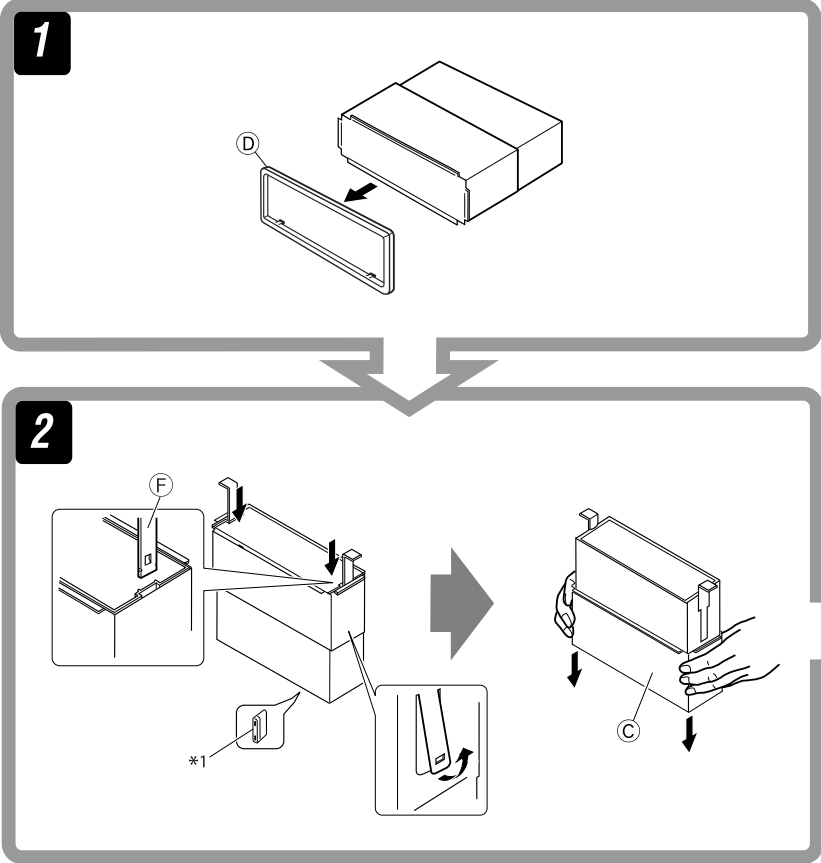


H
Battery
แบตเตอรี่

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

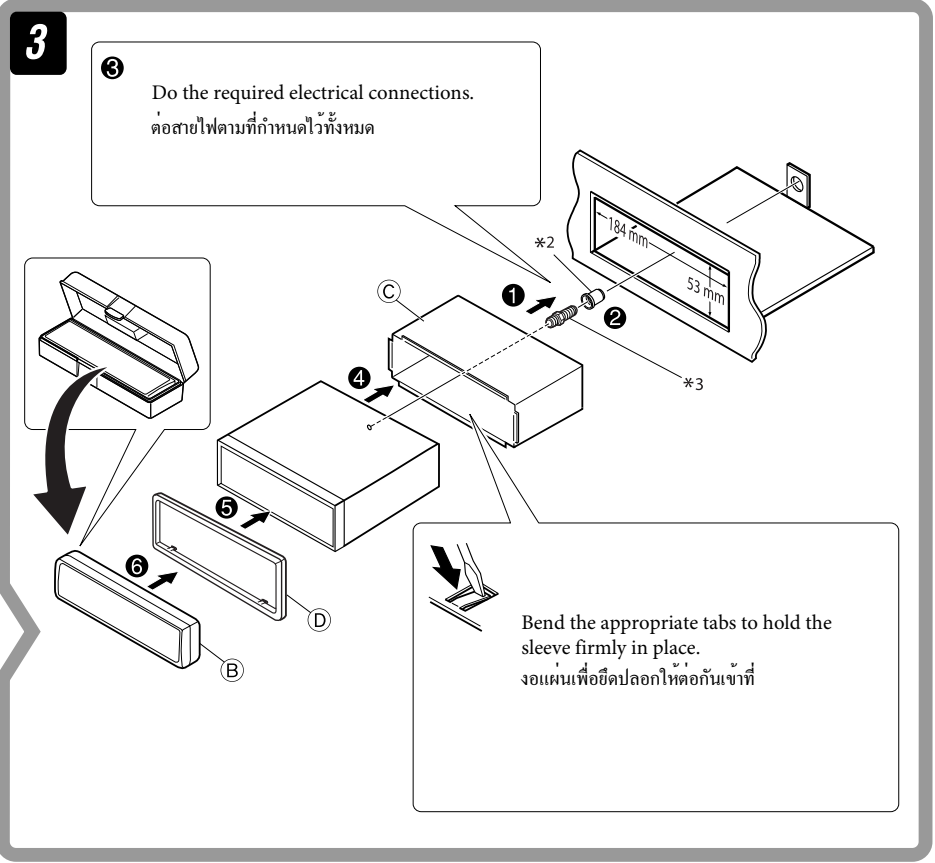
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.



การติดตั้ง (การประกอบแผงหน้าปัทมเข้า)

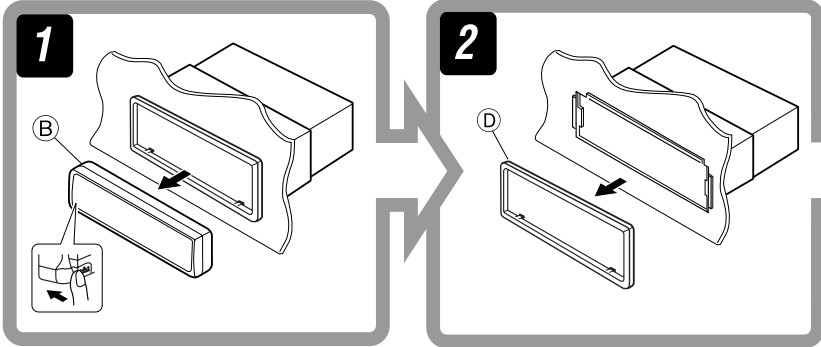
ภาพตัวอย่างต่อไปนี้แสดงถึงการติดตั้งแบบทั่วไป หากคุณมีปัญหาก็ขอข้อมูลเกี่ยวกับการติดตั้ง กรุณาปรึกษากับผู้ขายเครื่องเสียงรถยนต์ JVC ของท่านหรือบริษัท

- ชุดประกอบ ถ้าคุณไม่แน่ใจว่าติดตั้งชุดประกอบนี้ถูกต้องหรือไม่ ให้หาช่างผู้เชี่ยวชาญเป็นผู้ติดตั้ง



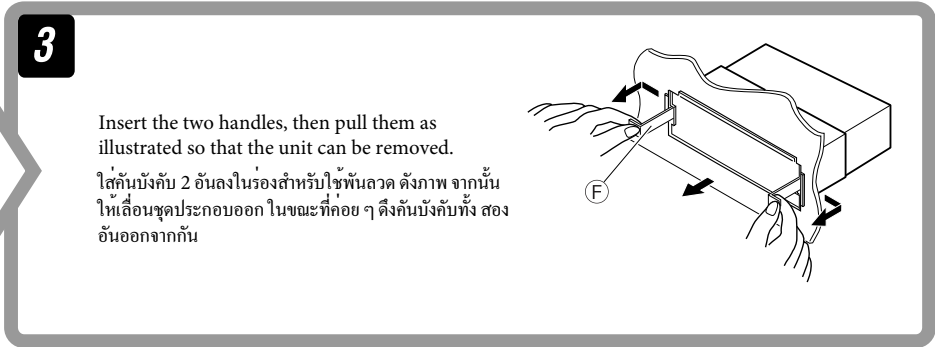
Removing the unit

Before removing the unit, release the rear section.

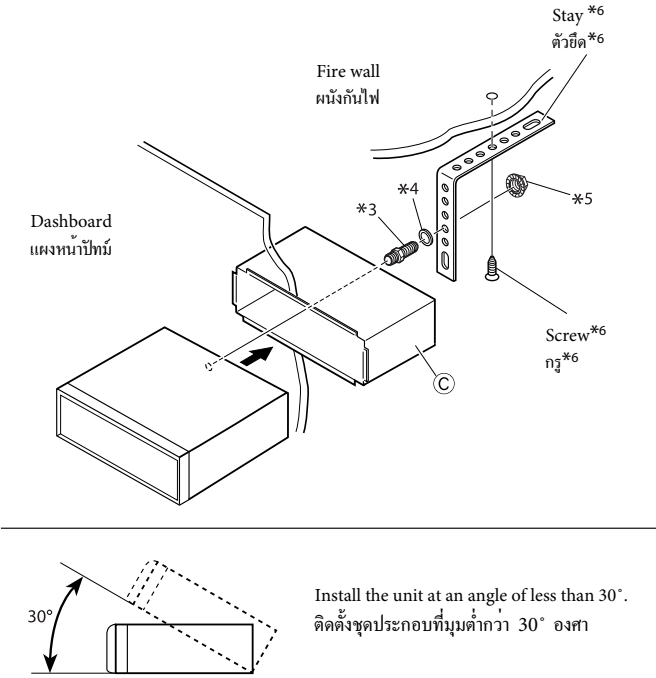


การถอดชุดประกอบ

ก่อนจะถอดชุดประกอบ ให้ปลดหน้าตัดส่วนท้ายก่อน



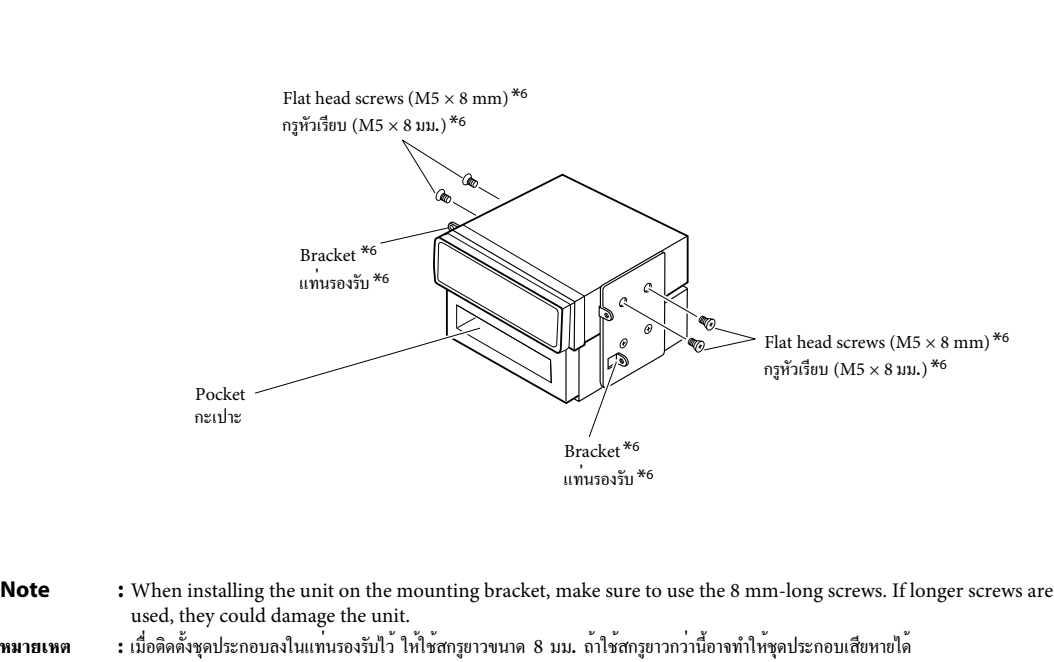
When using the optional stay / เมื่อใช้ตัวยึดแบบเลือกได้



When installing the unit without using the sleeve / เมื่อติดตั้งชุดประกอบโดยไม่ใช้ปลอกหุ้ม

In a Toyota car for example, first remove the car radio and install the unit in its place.

ตัวอย่างเช่น ในรถยนต์โตโยต้า ให้ถอดวิทยุติดรถยนต์ออกก่อน แล้วจึงติดตั้งเครื่องนี้เข้าแทนที่



*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Rubber cushion—Not supplied for this unit.
*3 Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)—Not supplied for this unit.
*4 Washer (ø5)—Not supplied for this unit.
*5 Lock nut (M5)—Not supplied for this unit.
*6 Not supplied for this unit.

*1 เมื่อคุณตั้งชุดประกอบขึ้น ระวังอย่าทำให้ฟิวส์บริเวณส่วนท้ายเสียหาย
*2 ยางกันกระแทก—ไม่ได้ให้มากับชุดประกอบนี้
*3 สลักติด (M4 × 5 มม.; M5 × 12.5 มม.)—ไม่ได้ให้มากับชุดประกอบนี้
*4 ประเก็นวงแหวน (ø5)—ไม่ได้ให้มากับชุดประกอบนี้
*5 นอตล็อก (M5)—ไม่ได้ให้มากับชุดประกอบนี้
*6 ไม่ได้ให้มากับชุดประกอบนี้

ELECTRICAL CONNECTIONS

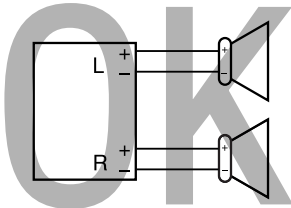
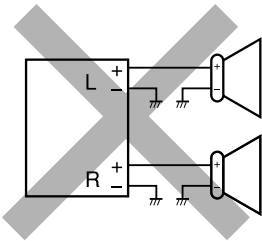
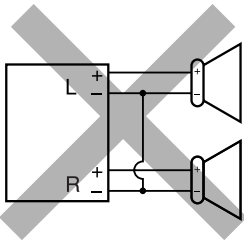
การเชื่อมต่อโดยใช้ไฟฟ้า

PRECAUTIONS on power supply and speaker connections:

- DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

ข้อควรระวังสำหรับการต่อแหล่งจ่ายกำลังและลำโพง:

- อย่าต่อสายตะกั่วเบิ้ลกำลังของลำโพงเข้ากับแบตเตอรี่รถยนต์ มิฉะนั้น ชุดประกอบจะได้รับความเสียหายมาก
- ก่อนที่จะต่อสายตะกั่วเบิ้ลกำลังของลำโพงเข้ากับลำโพง ให้ตรวจสอบการเดินสายไฟลำโพงในรถของคุณให้เรียบร้อยเสียก่อน



A Typical connections / การเชื่อมต่อแบบปกติ

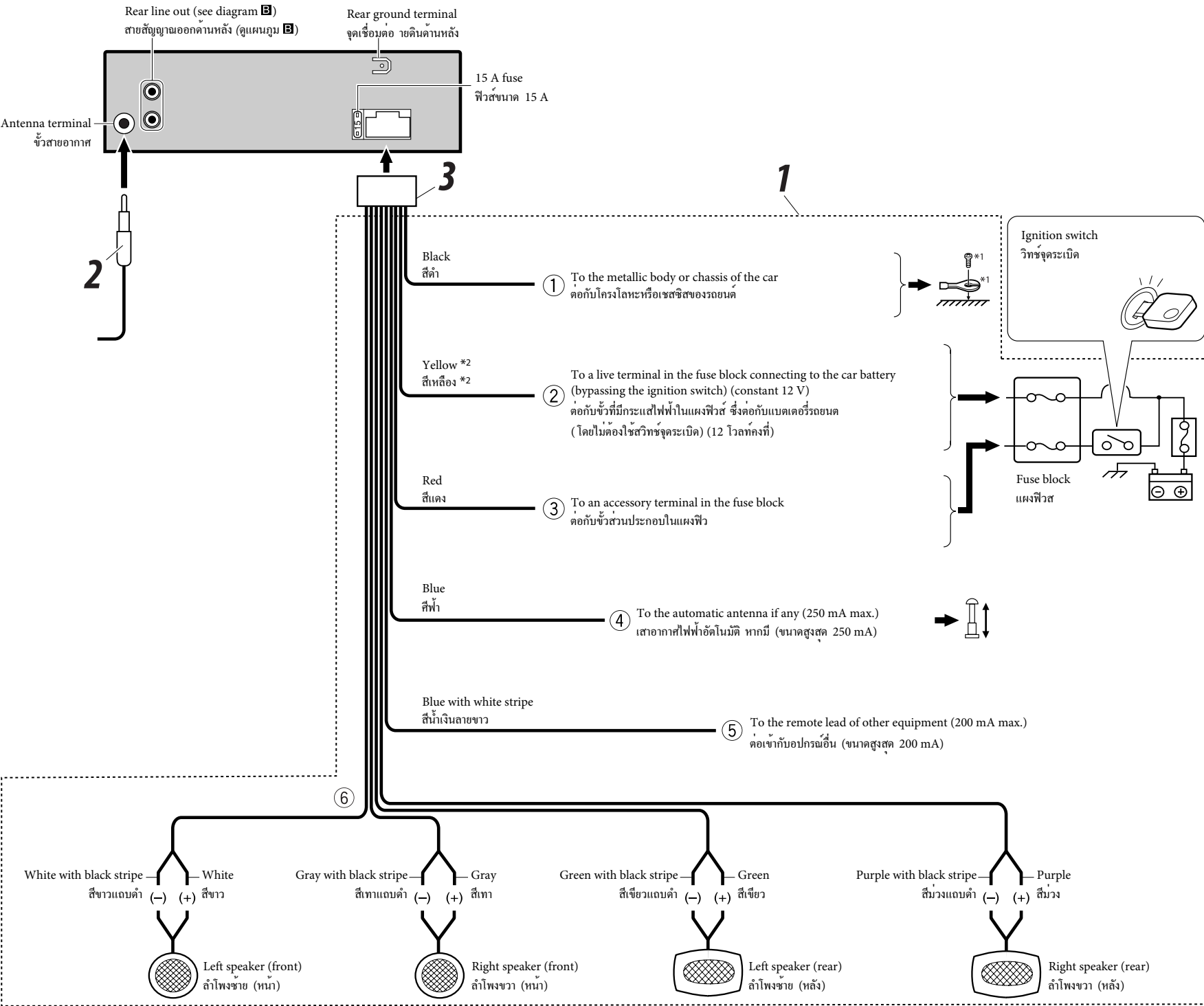
Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

ก่อนการเชื่อมต่อ: ตรวจสอบการเดินสายไฟในรถยนต์ให้ละเอียดถี่ถ้วน เพราะการเชื่อมต่อที่ผิดพลาดอาจทำให้เกิดความเสียหายร้ายแรงต่อชุดประกอบชุดนี้ได้

สายตะกั่วของสายไฟและของอุปกรณ์ต่อเชื่อมจากตัวรถยนต์อาจมีสีที่ไม่เหมือนกัน

- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

- 1 ต่อสายไฟสีตามลำดับที่ระบุในรูปด้านล่าง
- 2 เชื่อมต่อกับสายอากาศ
- 3 สุดท้าย ต่อส่วนควบคุมการเดินสายไฟเข้ากับชุดประกอบชุดนี้



*1 Not supplied for this unit.

*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise the power cannot be turned on.

*1 ไม่ได้ให้มาพร้อมกับชุดประกอบนี้

*2 ก่อนการตรวจสอบการทำงานของชุดประกอบนี้ก่อนที่จะติดตั้ง ต้องต่อสายตะกั่วนี้ก่อน มิฉะนั้นจะไม่สามารถเปิดเครื่องได้

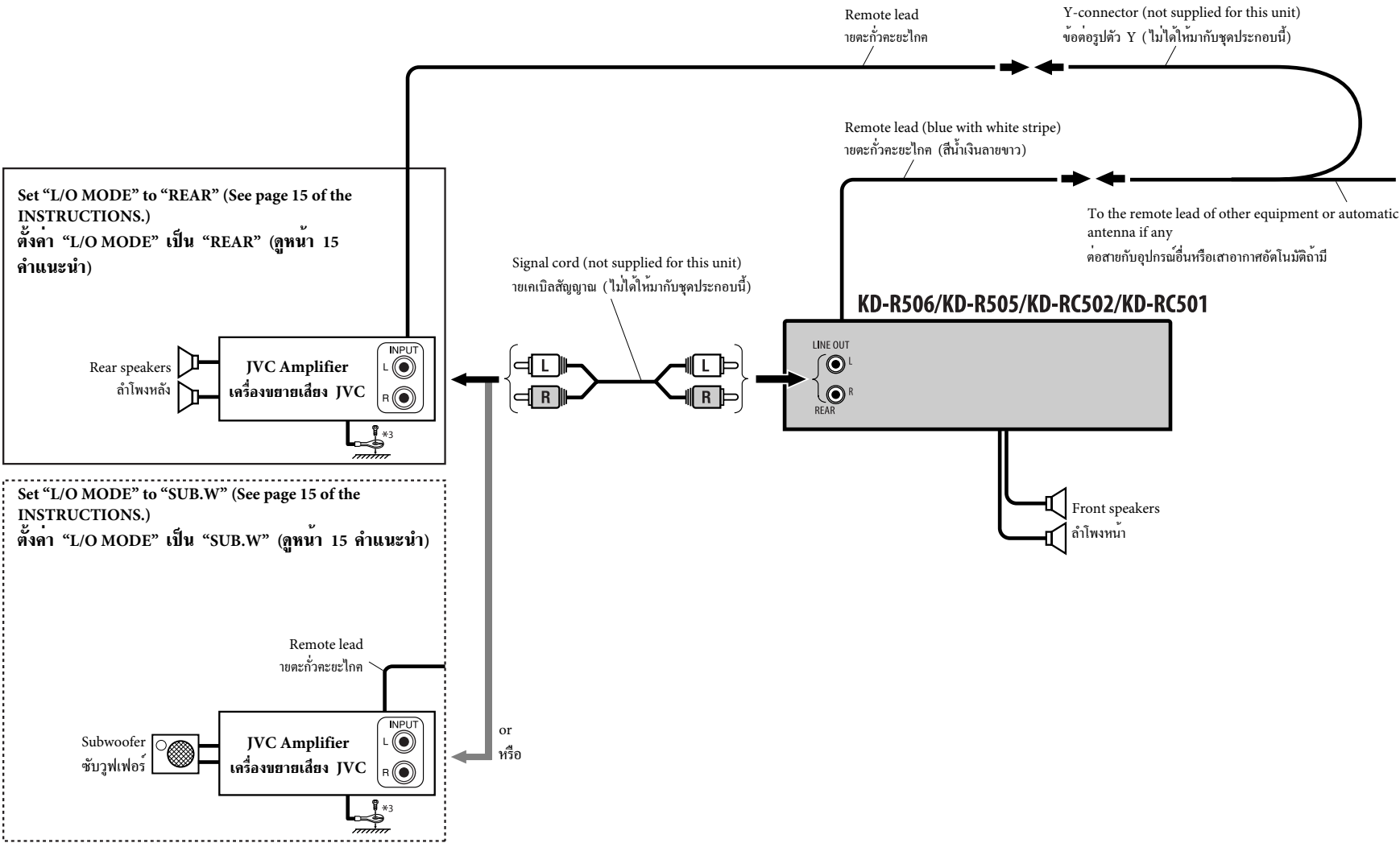
B Connecting the external amplifier or subwoofer / การเชื่อมต่อเครื่องขยายเสียงภายนอก

You can connect an amplifier to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

คุณสามารถต่อกับแอมพลิฟายเออร์ เพื่อเพิ่มคุณภาพเสียงให้กับระบบสเตอริโอของรถยนต์

- ต่อสายตะกั่วระยะไกล (สีน้ำเงินลายขาว) เข้ากับสายตะกั่วระยะไกลของอุปกรณ์อื่น ๆ เพื่อจะสามารถควบคุมโดยชุดประกอบนี้ได้
- **ถอดลำโพงออกจากชุดประกอบนี้ แล้วต่อเข้ากับเครื่องขยาย ทั้งสายตะกั่วลำโพงของชุดประกอบนี้ไว้**



*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

*3 เชื่อมสายดินให้แน่นเข้ากับตัวถังเหล็ก หรือตัวถังรถ—ตรงส่วน ที่ไม่มีสีเคลือบ (หากมีสีเคลือบอยู่ ให้ขูดสีออกก่อน ก่อนต่อสายดิน) หากไม่ปฏิบัติตามคำแนะนำนี้ เครื่องอาจชำรุดหรือเสียหายได้

TROUBLESHOOTING

- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the “-” terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car’s chassis using shorter and thicker cords?
- **This unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the “-” terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?

การตรวจสอบปัญหาขัดข้อง

- **ฟิวส์ขาด**
 - * มีการเชื่อมต่อ ยายตะกั่วสีแดงและสีดำอย่างถูกต้องหรือไม่
- **ไม่สามารถเปิดเครื่องได้**
 - * มีการเชื่อมต่อสายตะกั่วสีเหลืองหรือไม่
- **ไม่มีเสียงออกจากลำโพง**
 - * สายตะกั่วส่วนที่ออกทางลำโพงเกิดไฟฟ้าลัดวงจรหรือไม่
- **เสียงเพี้ยน**
 - * สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
 - * สายขั้วลบ “-” ของลำโพงด้านซ้ายและขวาต่อลงดินตามปกติหรือไม่
- **เสียงรบกวน**
 - * มีการใช้สายสั้นๆ หรือหนาๆ ต่อจากเครื่องส่วนที่ติดตั้ง ไว้บนพื้นด้านหลังกับตัวถังรถยนต์หรือไม่
- **ชุดประกอบร้อนขึ้น**
 - * สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
 - * สายขั้วลบ “-” ของลำโพงด้านซ้ายและขวาต่อลงดินตามปกติหรือไม่
- **เครื่องรับนี้ทำงานไม่**
 - * ท่านได้ตั้งเครื่องใหม่แล้วหรือยัง